

THE ELECTRIC STORAGE BATTERY CO.

MANUFACTURER OF THE

TRADE MARK

“Chloride Accumulator”

REGISTERED SEPTEMBER 11, 1894

General Offices and Works : Allegheny Avenue and Nineteenth Street

PHILADELPHIA, PA.

Price List A

1906

Sixth Edition

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THE ELECTRIC STORAGE BATTERY COMPANY
has acquired all the patents and patent rights concerning
the manufacture of electric storage batteries heretofore
owned or controlled by

The General Electric Company

The Edison Electric Light Company

The Thomson-Houston Electric Company

The Brush Electric Company

The Accumulator Company

The Consolidated Electric Storage Company

The General Electric Launch Company

The Bradbury-Stone Electric Storage Company

The Hopedale Electric Company

The Pumpelly-Sorley Battery Company

The Planté Company

The Accumulatoren-Fabrik Aktien-Gesellschaft

(The Tudor Company)

Thereby securing to itself the sole right to supply, in the
United States and Canada, storage batteries of all the
various important types heretofore developed

THE ELECTRIC STORAGE BATTERY CO.

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“Chloride Accumulator”

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General Offices and Works: Allegheny Avenue and Nineteenth Street

Philadelphia, Pa.

SALES OFFICES

Philadelphia, Allegheny Avenue and Nineteenth Street

New York, 100 Broadway

St. Louis, Wainwright Building

Boston, 60 State Street

Cleveland, Citizen's Building

Chicago, Marquette Building

Pittsburgh, Frick Building Annex

Oakland, Cal., 525 Thirteenth Street

Canada: The Canadian General Electric Co., Ltd., Toronto

ALLIED COMPANIES

For the Manufacture of the

“Chloride Accumulator”

THE ELECTRIC STORAGE BATTERY CO.

General Offices and Works: Allegheny Avenue and Nineteenth Street
PHILADELPHIA, PA., U. S. A.

The Chloride Electrical Storage Company, Limited

Office : 39 Victoria Street, Westminster, S. W., London, Eng.

Works : Clifton Junction, Manchester, Eng.

Registered Office : Clifton Junction, Manchester, Eng.

Accumulatoren-Fabrik Aktien-Gesellschaft

(The Tudor Company)

Office : Luisenstrasse 31 A, Berlin, N. W., Germany

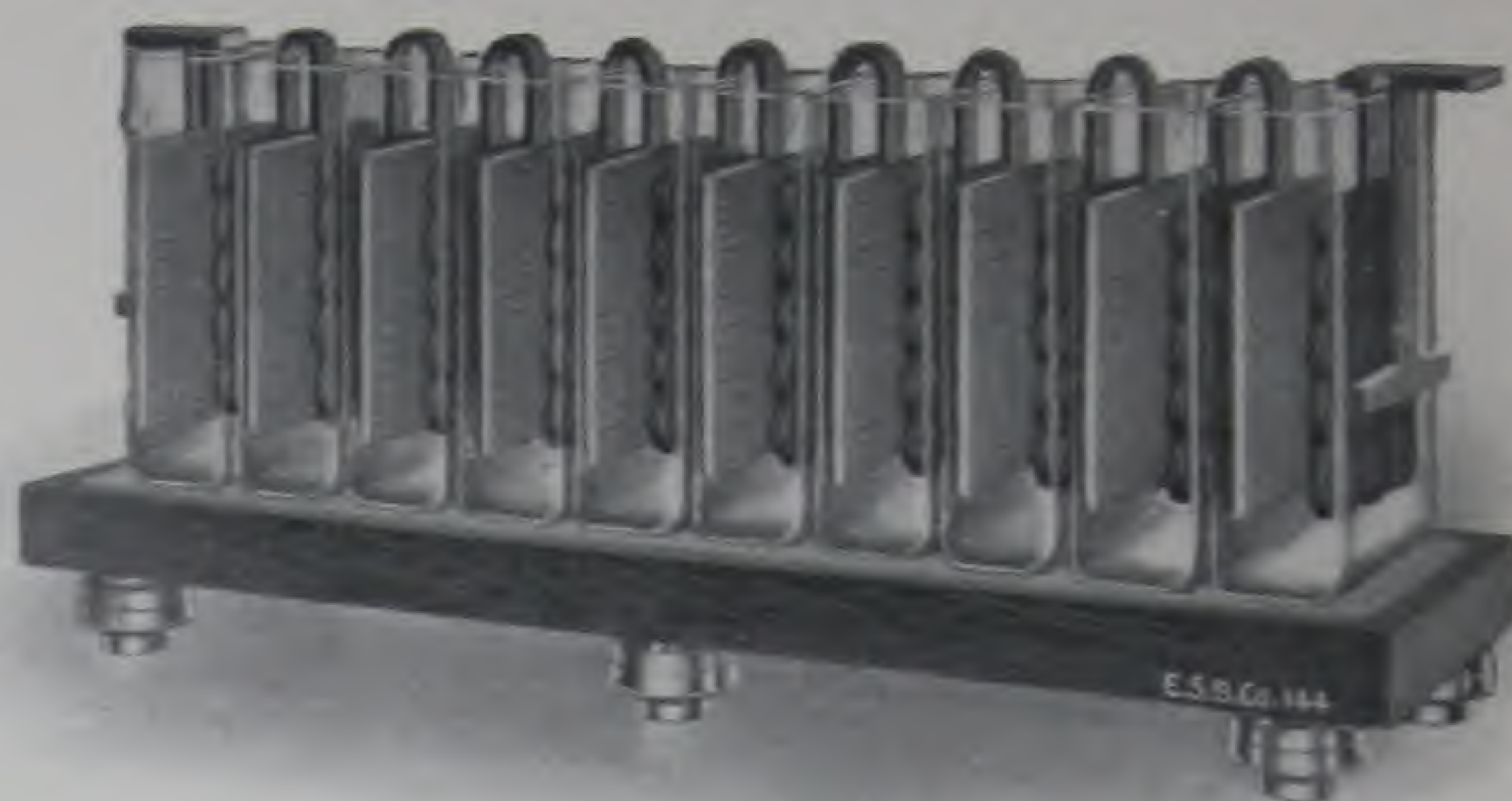
Works : Hagen, Westphalia

THE acquisition by The Electric Storage Battery Company of all the basic patents and patent rights underlying the manufacture of storage batteries, and the subsequent acquirement of patents and patent rights for new and valuable types, enable this Company to furnish cells adapted to every requirement of standard or special work.

The alliance existing between The Electric Storage Battery Company and the largest manufacturers of storage batteries in England and Germany, secures to this Company the experience of the highest engineering talent available in this special field of electrical manufacture.

The value to the public of this united effort to perfect storage battery practice cannot be overestimated, and The Electric Storage Battery Company's products represent the most modern type of accumulator, possessing the highest efficiency, the longest life and most perfect mechanical methods of construction.

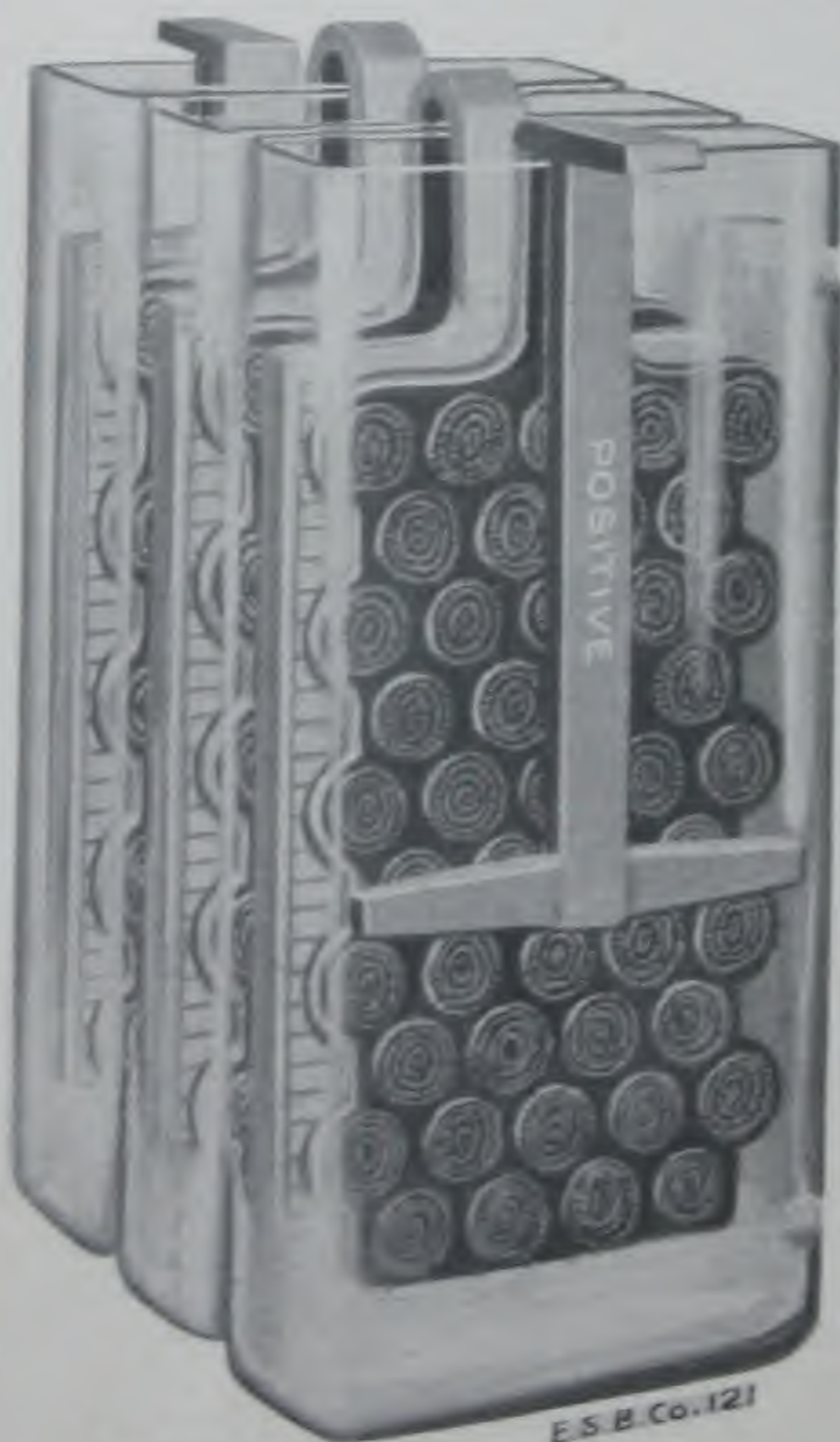
The Electric Storage Battery Company owns the patents covering the applications of boosters, cell switches and other auxiliaries to storage battery installations, and has developed types of such apparatus best suited to meet the requirements of the various conditions under which storage batteries are operated.



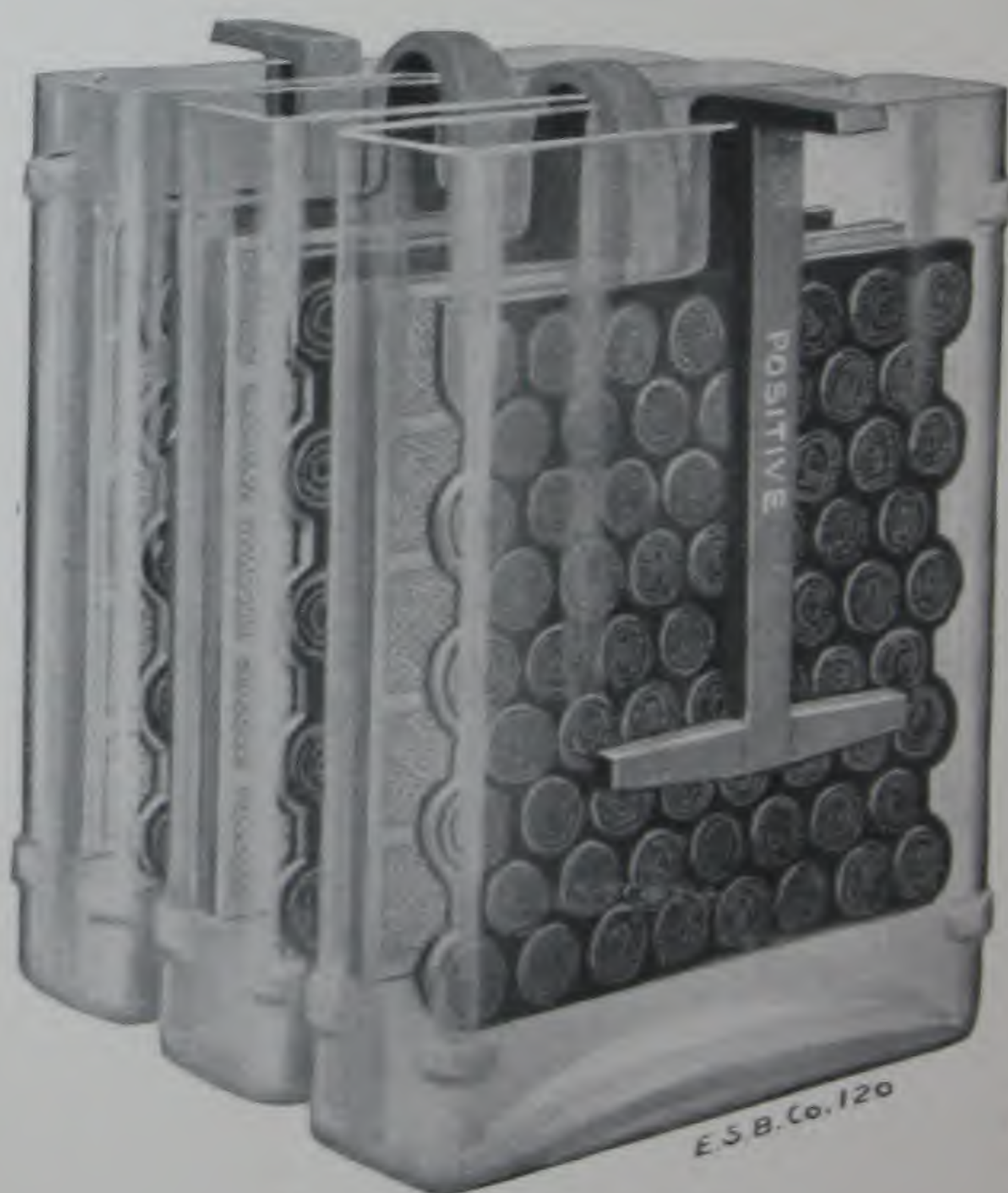
10 "CT" Couples on Sand Tray



"BT" Couples in Glass Jars



"PT" Couples in Glass Jars



"ET" Couples in Glass Jars

The voltage of cells of all capacities is slightly above two volts on open circuit, and during discharge at the 8-hour rate varies from that point at the beginning to 1.75 volts at the end.

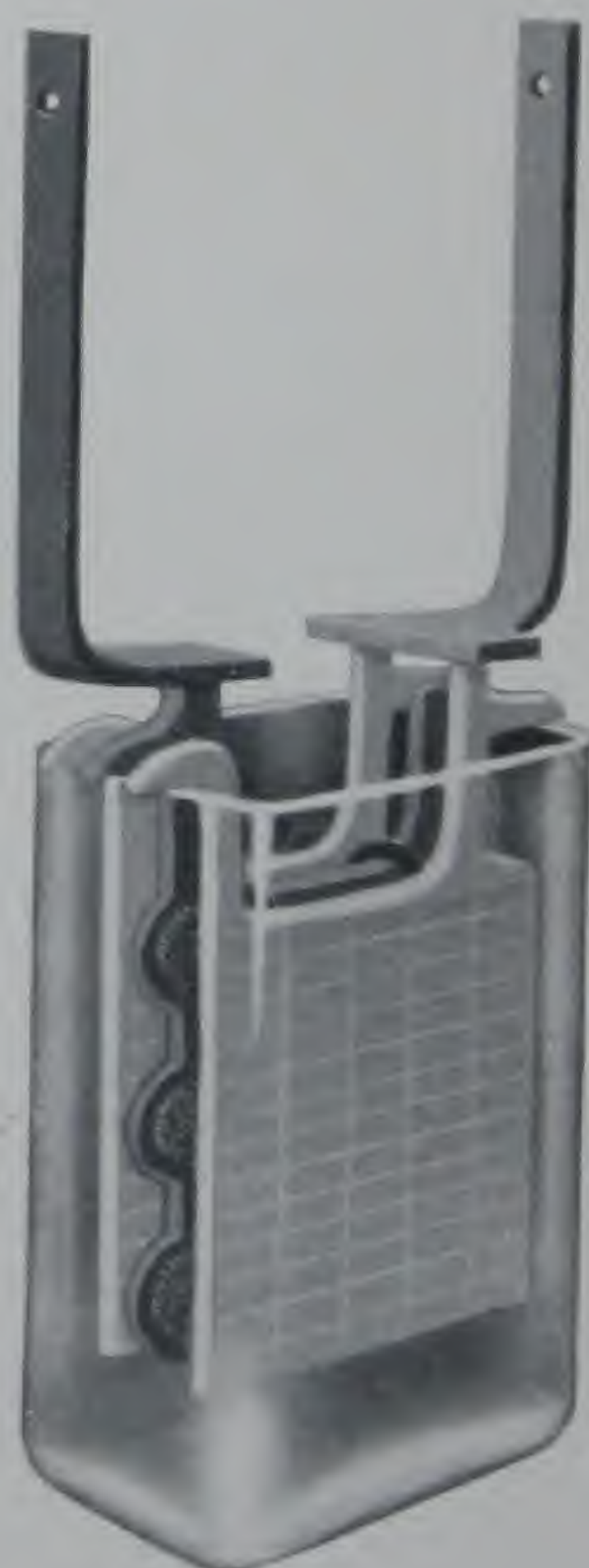
ELEMENTS OF TWO PLATE TYPES

"Chloride Accumulator"					
Type	B T	C T	P T	E T	
Size of plates in inches	4 x 3	5 x 5	8¾ x 5	7¾ x 7¾	
Number of plates	2	2	2	2	
Discharge in amperes {	For 8 hours . .	¾	1½	3	4½
	5 " . .	1	2	4¼	6½
	3 " . .	1½	3	6	9
Normal charge rate	¾	1½	3	4½	
Outside measurement of glass jar, in inches: {	Length . .	1¾	2¼	2½	2¼
	Width . .	3¾	6¼	6	8¾
	Height . .	6¾	8	12	11
Outside measurement of rubber jar, in inches {	Length . .	1½	2	2	2
	Width . .	3¾	5⅝	5⅝	8⅞
	Height . .	6½	8	12¼	11
THE ELECTRIC STORAGE BATTERY CO.					
Weight of electrolyte in glass jar, in pounds: }	1	2¼	4½	5½	
Weight of electrolyte in rubber jar, in pounds: }	½	2	2½	4¾	
Weight of cell complete, with electrolyte in rubber jar, in pounds: }	2½	5¾	9¾	14¼	
Height of cell to top of lug, in inches,	7	8¼	12¼	11⅞	
Price, element only \$	0.90	1.75	2.60	3.50	
Price glass jar, extra \$	0.25	0.35	0.60	0.75	
Price, rubber jar and cover, extra . \$	0.65	1.10	1.75	2.05	

N. B.—In ordering Elements, or parts thereof, specify whether intended for glass or rubber jars. See pages 27 and 28 for prices of Connectors, Electrolyte, etc.



Type "B" 3 Plates in Glass Jar

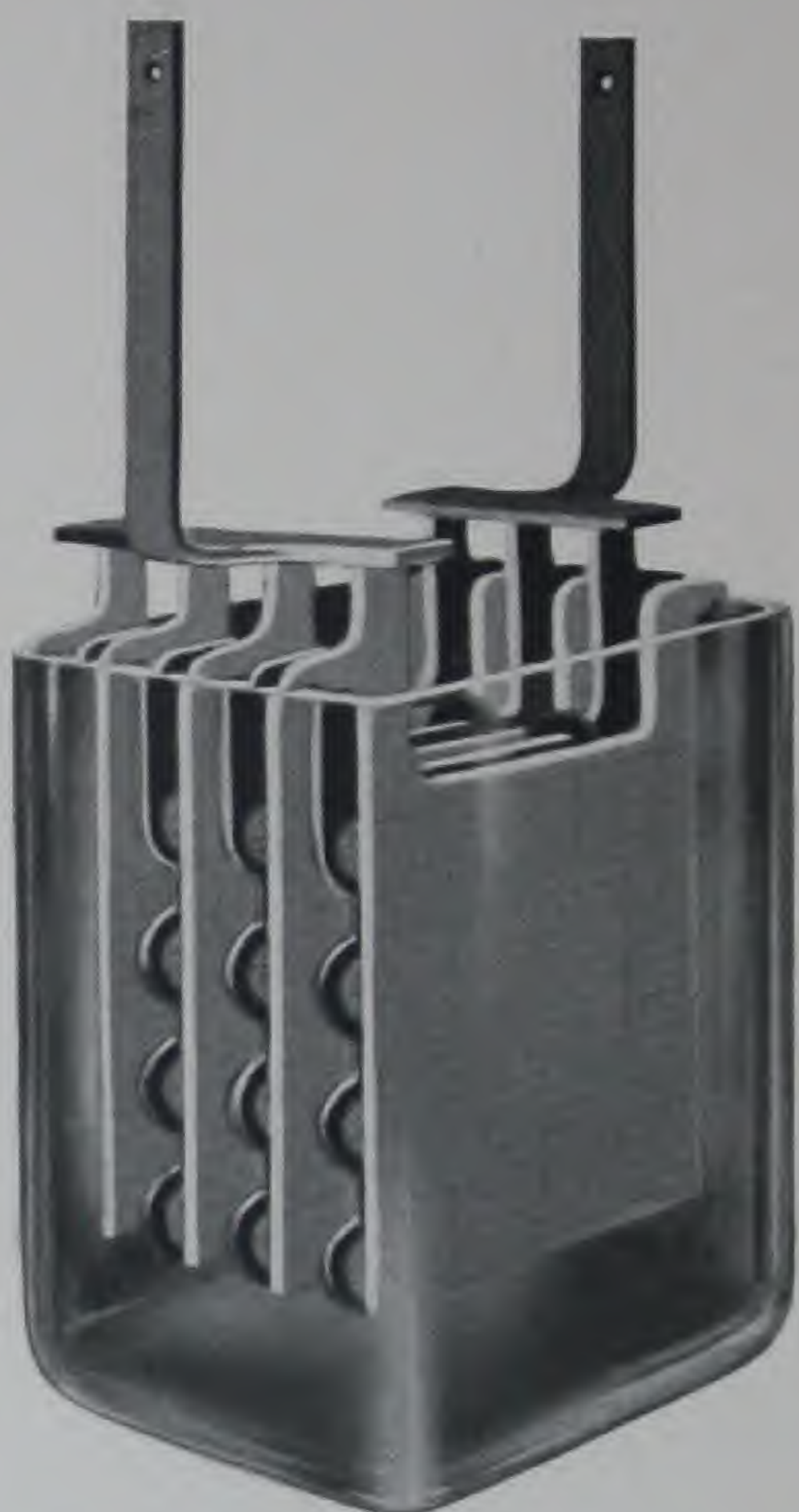


Type "C" 3 Plates in Glass Jar

ELEMENTS OF TYPES "B" AND "C"

"Chloride Accumulator"					
TYPE		B	C		
Size of plate in inches		3 x 3	4 $\frac{3}{8}$ x 4		
Number of plates		3	3	5	7
Discharge in amperes	For 8 hours . .	$\frac{5}{8}$	1 $\frac{1}{4}$	2 $\frac{1}{2}$	3 $\frac{3}{4}$
	5 " . .	$\frac{7}{8}$	1 $\frac{3}{4}$	3 $\frac{1}{2}$	5 $\frac{1}{4}$
	3 " . .	1 $\frac{1}{4}$	2 $\frac{1}{2}$	5	7 $\frac{1}{2}$
Normal charge rate		$\frac{5}{8}$	1 $\frac{1}{4}$	2 $\frac{1}{2}$	3 $\frac{3}{4}$
Outside measurement of glass jar, in inches:	Length . .	2 $\frac{1}{2}$	3 $\frac{1}{2}$	4 $\frac{1}{4}$	5 $\frac{1}{4}$
	Width . .	4	5 $\frac{1}{4}$	5 $\frac{1}{4}$	5 $\frac{1}{4}$
	Height . .	4 $\frac{1}{2}$ 5 $\frac{1}{2}$ 6 $\frac{1}{2}$	7 $\frac{1}{4}$	7 $\frac{1}{4}$	7 $\frac{1}{4}$
Outside measurement of rubber jar, in inches:	Length . .	1 $\frac{3}{4}$	1 $\frac{3}{4}$	2 $\frac{3}{4}$	3 $\frac{7}{8}$
	Width . .	3 $\frac{5}{8}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$
	Height . .	5	7	7	7
THE ELECTRIC STORAGE BATTERY CO.					
Weight of electrolyte in glass jar, in pounds: }		$\frac{3}{4}$ 1 1 $\frac{1}{4}$	3 $\frac{1}{4}$	4 $\frac{1}{4}$	5 $\frac{1}{2}$
Weight of electrolyte in rubber jar, in pounds: }		$\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{4}$	2 $\frac{3}{4}$
Weight of cell complete, with electrolyte in rubber jar, in pounds: }		3 $\frac{1}{2}$	6 $\frac{1}{2}$	10	13
Height of cell to top of lug, in inches: }		7 $\frac{1}{2}$ 9 $\frac{1}{2}$ 11 $\frac{1}{2}$	15	15	15
Price, element only \$		1.50	2.25	3.50	5.00
Price glass jar, extra \$		0.15	0.15	0.25	0.30
Price, rubber jar and cover, extra . \$		0.65	0.95	1.15	1.40

N. B.—In ordering Elements, or parts thereof, specify whether intended for glass or rubber jars. See pages 27 and 28 for prices of Connectors, Electrolyte, etc.



Type "D" 7 Plates in Glass Jar



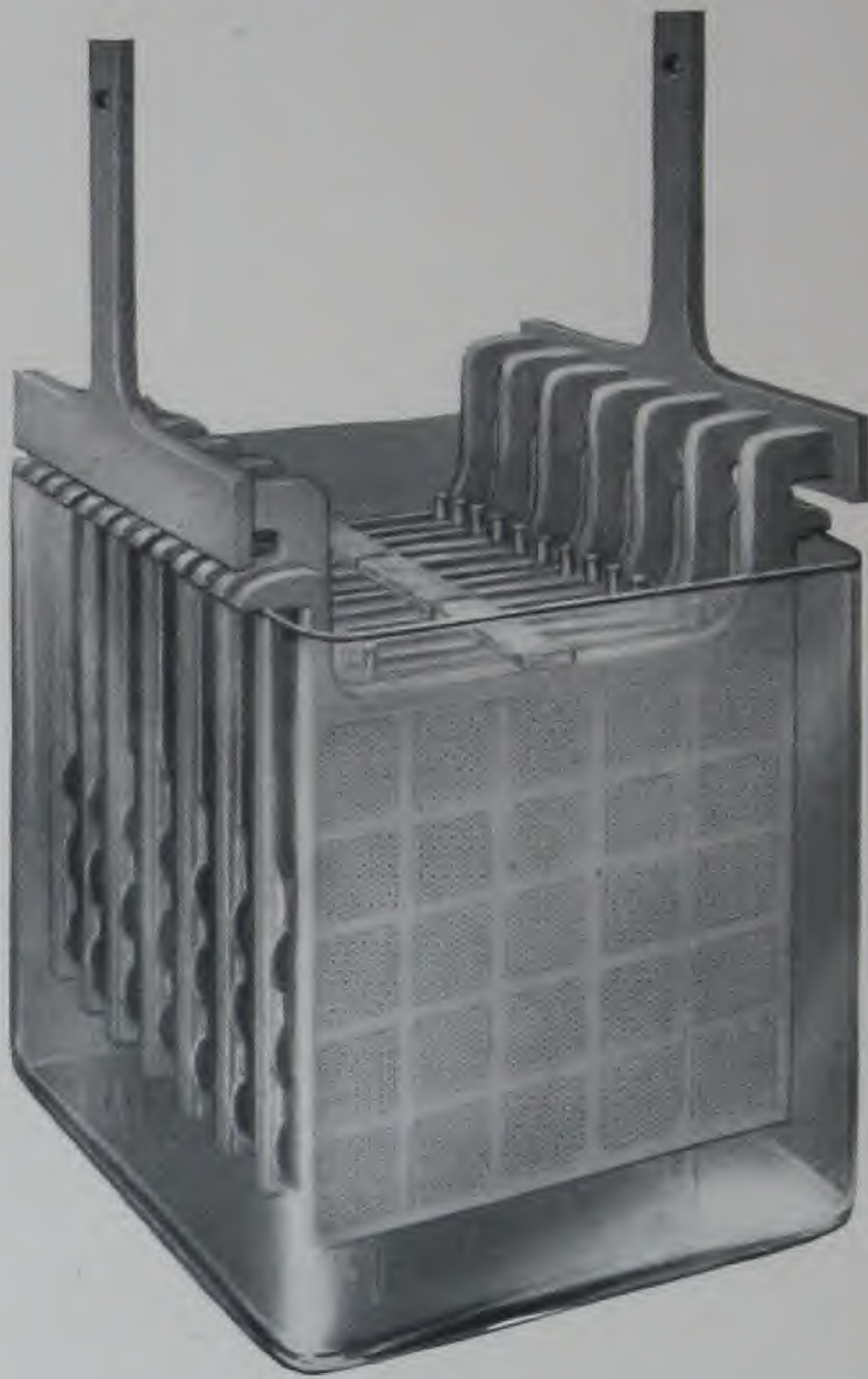
Type "D" Wood Sand Tray

ELEMENTS OF TYPE "D"

Size of Plates, 6 inches by 6 inches

"Chloride Accumulator"						
Number of plates	3	5	7	9	11	13
Discharge in amperes {	For 8 hours . .	2½	5	7½	10	12½
	5 " . .	3½	7	10½	14	17½
	3 " . .	5	10	15	20	25
Normal charge rate	2½	5	7½	10	12½	15
Outside measurement of glass jar, in inches: {	Length . .	3¼	4¾	6½	8¼	8¾
	Width . .	7¾	7¾	7¾	8	8
	Height . .	9½	9½	9½	9½	9½
Outside measurement of rubber jar, in inches: {	Length . .	1¾	2¾	3¾	5	6½
	Width . .	6½	6½	6½	6½	6½
	Height . .	9	9	9	9	9
THE ELECTRIC STORAGE BATTERY CO.						
Weight of electrolyte in glass jar, in pounds: }	7½	10½	15	17¾	17¾	21
Weight of electrolyte in rubber jar, in pounds: }	2½	3¾	5¼	6¾	7¾	10
Weight of cell complete, with electrolyte in glass jar, in pounds: }	20	28	38	48	53	63
Weight of cell complete, with electrolyte in rubber jar, in pounds: }	12	18½	24½	32½	39¾	47¾
Height of cell to top of lug, in inches,	18	18	18	18	18	18
Price, element only \$	3.25	5.00	6.75	8.50	10.25	12.00
Price, glass jar, extra \$	0.65	0.80	1.20	1.50	1.50	2.25
Price, rubber jar and cover, extra, \$	1.45	1.70	1.90	2.70	3.10	3.95

N. B.—In ordering Elements, or parts thereof, specify whether intended for glass or rubber jars. See pages 27 and 28 for prices of Connectors, Electrolyte, etc.



Type "E" 13 Plates in Glass Jar



Type "E" Wood Sand Tray

ELEMENTS OF TYPE "E"

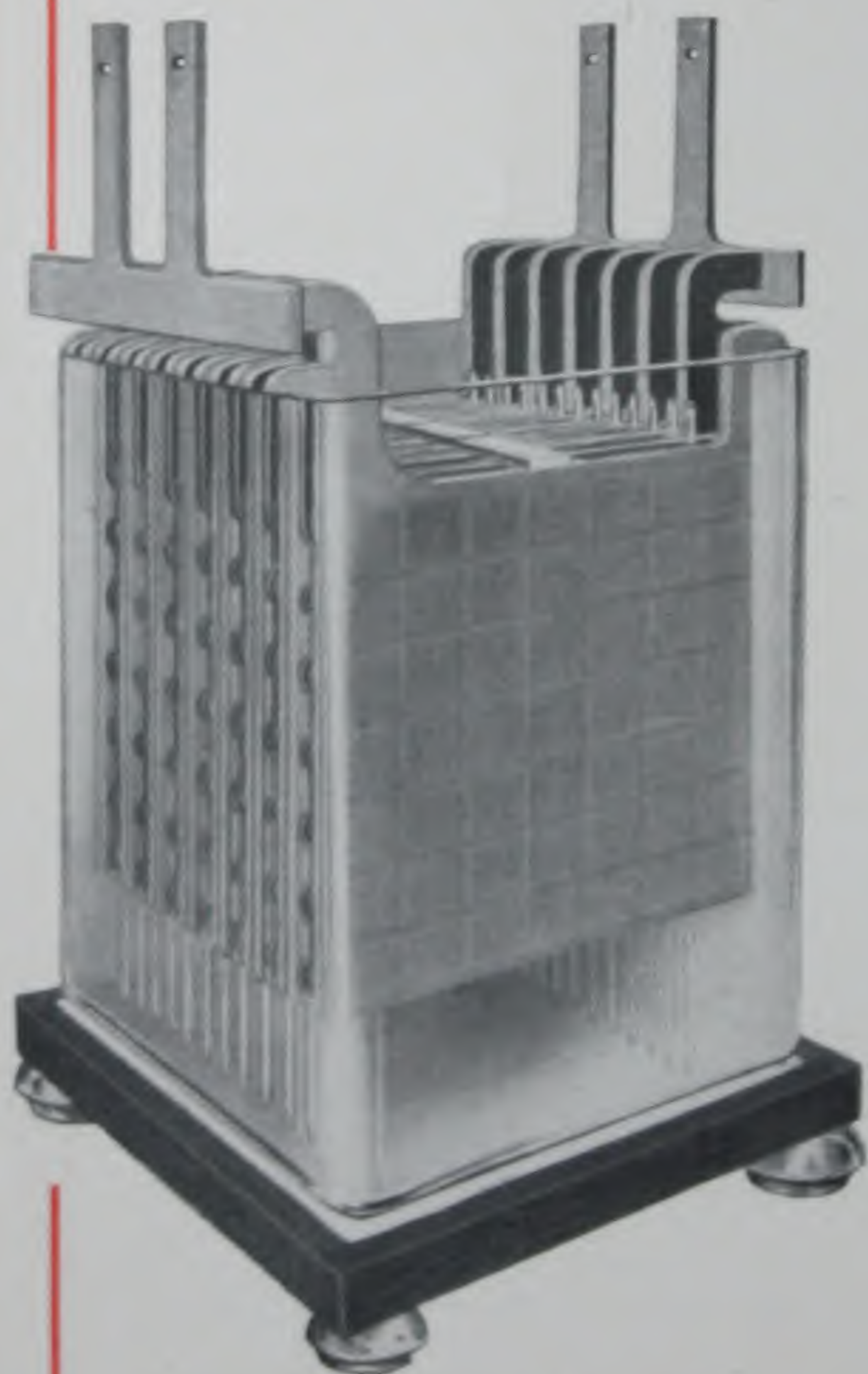
Size of Plates, 7 3/4 inches by 7 3/4 inches

"Chloride Accumulator"						
Number of plates	5	7	9	11	13	15
Discharge in amperes {	For					
	8 hours . .	10	15	20	25	30
	5 " . .	14	21	28	35	42
	3 " . .	20	30	40	50	60
	1 " . .	40	60	80	100	120
Normal charge rate	10	15	20	25	30	35
Outside measurement of glass jar, in inches: {	Length . .	5 1/2	6 3/4	8	8 5/8	11
	Width . .	9 1/8	9 1/8	9 1/8	9 1/8	9 1/8
	Height . .	11 3/8	11 3/8	11 3/8	11 3/8	11 3/8
Outside measurement of rubber jar, in inches: {	Length . .	2 7/8	3 7/8	5	6 1/8	8 1/8
	Width . .	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
	Height . .	11	11	11	11	11
Outside measurement of all metal tanks, in inches: {	Length . .	8 3/4	9 3/4	11 1/8	12 3/8	13 3/4
	Width . .	11	11	11	11	11
	Height . .	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4
THE ELECTRIC STORAGE BATTERY CO.						
Weight of electrolyte, in pounds: {	In glass . .	18 1/2	20	24 1/2	26	35
	" rubber . .	5 1/2	8	10 1/2	12	17
	" all metal tanks . .	27 1/2	31 1/2	36	40	44 1/2
Weight of cell complete with electrolyte, in pounds: {	In glass . .	49	60	74	86 1/2	104
	" rubber . .	29 1/2	40 1/2	52	63	77
	" all metal tanks . .	85	104	124	136	161
Height of cell to top of lug, in inches: {	In glass . .	20	20	20	20	20
	" rubber . .	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
	" all metal tanks . .	16	16	16	16	16
Price, element only \$	8.25	11.75	15.25	18.75	22.25	25.75
Price, glass jar, extra \$	1.20	1.35	1.50	1.75	2.55	2.55
Price, rubber jar and cover, extra . \$	2.90	3.25	3.75	5.05	5.75	6.10
Price, all metal tank, extra \$	10.30	11.35	12.40	13.45	14.50	15.55

N. B.—In ordering Elements, or parts thereof, specify whether intended for glass or rubber jars or tanks. See pages 27 and 28 for prices of Connectors, Electrolyte, etc.



Type "F" 15 Plates in all Metal Tank



Type "F" 15 Plates in Glass Jar



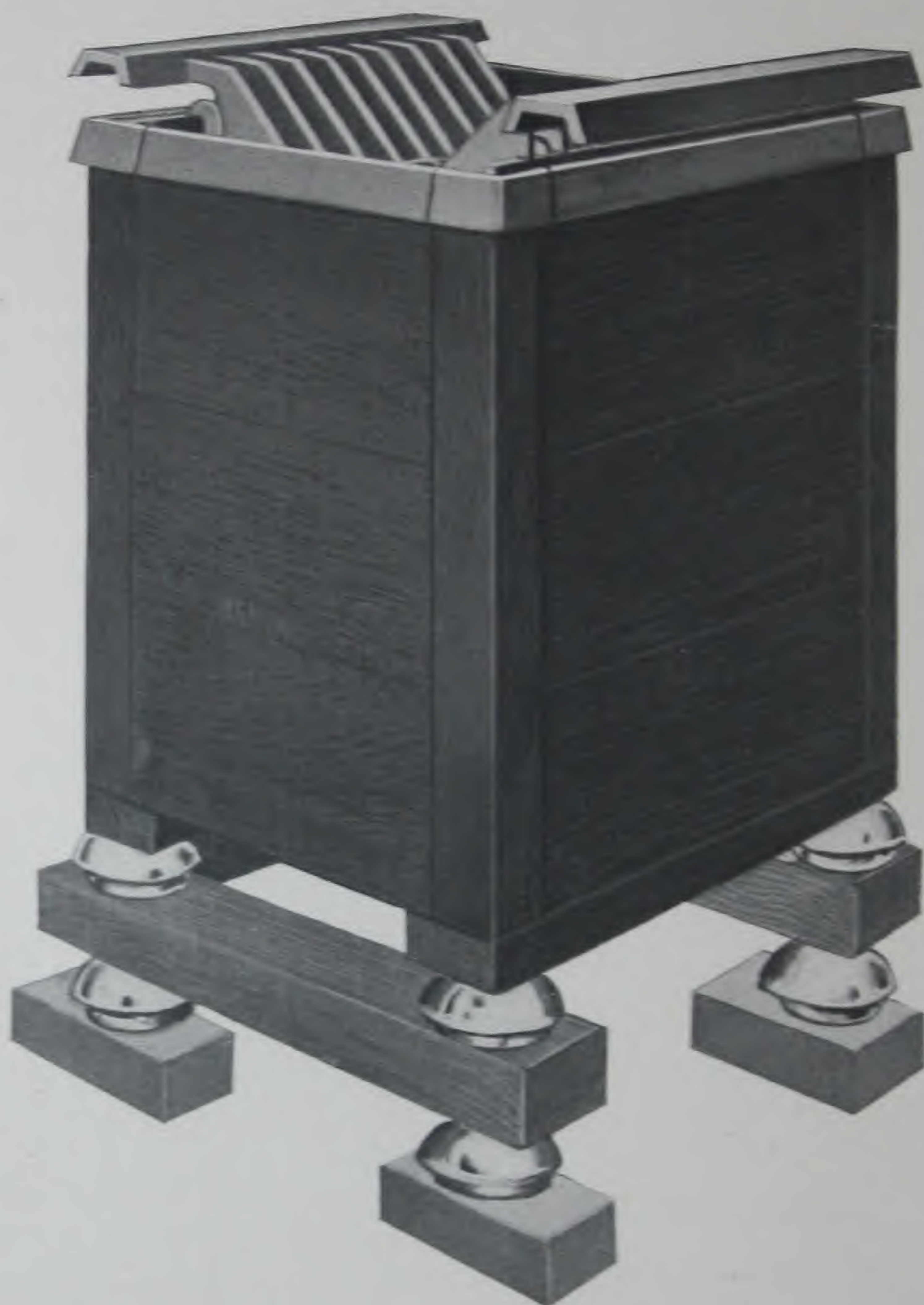
Type "F" 15 Plates in Glass Tank

ELEMENTS OF TYPE "F"

Size of Plates, 11 inches by 10½ inches

"Chloride Accumulator"											
Number of plates		9	11	13	15	17	19	21	23	25	27
Discharge in am- peres :	For 8 hours . .	40	50	60	70	80	90	100	110	120	130
	5 " . .	56	70	84	98	112	126	140	154	168	182
	3 " . .	80	100	120	140	160	180	200	220	240	260
	1 " . .	160	200	240	280	320	360	400	440	480	520
Normal charge rate		40	50	60	70	80	90	100	110	120	130
Outside measure- ments of glass jar, in inches :	Length . .	9	10 ⁵ / ₈	10 ⁵ / ₈	12	Old type jars 15 ¹ / ₂ inches high can be furnished for renewals					
	Width . .	12 ⁵ / ₈	12 ⁵ / ₈	12 ⁵ / ₈	12 ⁵ / ₈						
	Height . .	17	17	17	17						
Outside measure- ments of glass tanks, in inches :	Length . .	. .	. .	14 ¹ / ₈	. .	17 ³ / ₈	. .	20 ³ / ₄	. .	. .	. .
	Width . .	. .	. .	13 ¹ / ₈	. .	13 ¹ / ₈	. .	13 ¹ / ₈	. .	. .	. .
	Height . .	. .	. .	18 ¹ / ₄	. .	18 ¹ / ₄	. .	18 ¹ / ₄	. .	. .	. .
Clearance between glass tanks, 2 ¹ / ₄ and 3 ³ / ₈ ins.											
Outside measure- ments of all metal tanks, in inches :	Length . .	13 ¹ / ₈	14 ⁷ / ₈	16 ¹ / ₂	18 ¹ / ₈	19 ³ / ₄	21 ¹ / ₂	23 ¹ / ₈	24 ³ / ₄	26 ³ / ₈	28 ¹ / ₈
	Width . .	15	15	15	15	15	15	15	15	15	15
	Height . .	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈
Clearance between metal tanks, 2 inches.											
Outside measure- ments of lead- lined wood tanks, in inches :	Length . .	13 ³ / ₈	15 ¹ / ₈	16 ³ / ₄	18 ³ / ₈	20	21 ³ / ₄	23 ³ / ₈	25	26 ⁵ / ₈	28 ³ / ₈
	Width . .	15	15	15	15	15	15	15	15	15	15
	Height . .	20 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄
Clearance between wood tanks, 2 inches.											
THE ELECTRIC STORAGE BATTERY CO.											
Weight of elec- trolyte, in lbs. :	In glass jars . .	63	69	67	79	. .	. .	. .	. .	. .	. .
	In glass tanks . .	. .	. .	97	. .	121	. .	143	. .	. .	. .
	In all metal tanks,	95	108	121	134	146	160	172	185	198	212
	In wood tanks . .	86	99	111	123	133	145	156	168	180	191
Weight of cell complete with electro- lyte, in lbs. :	In glass jars . .	174 ¹ / ₂	206	227	260	. .	. .	. .	. .	. .	. .
	In glass tanks . .	. .	. .	279	. .	352	. .	422	. .	. .	. .
	In all metal tanks,	256	297	337	377	416	457	497	537	577	618
	In wood tanks . .	250	292	332	372	411	452	492	532	573	615
Height of cell, in glass jars, from bottom of insulator to top of lug, in inches :		29 ¹ / ₂	29 ¹ / ₂	29 ¹ / ₂	29 ¹ / ₂	. .	. .	. .	. .	. .	. .
Height of cell, in glass tanks, from bottom of insulators to top of bus bar, in inches :		. .	. .	23 ¹ / ₄	. .	23 ¹ / ₄	. .	23 ¹ / ₄	. .	. .	. .
Height of cell, in all metal tanks, from floor to top of bus bar, double insula- tion, in inches :		33 ¹ / ₂	33 ¹ / ₂	33 ¹ / ₂	33 ¹ / ₂	33 ¹ / ₂	33 ¹ / ₂	33 ¹ / ₂	33 ¹ / ₂	33 ¹ / ₂	33 ¹ / ₂
Height of cell, in wood tanks, from floor to top of bus bar, double insulation, in inches :		33 ¹ / ₄	33 ¹ / ₄	33 ¹ / ₄	33 ¹ / ₄	33 ¹ / ₄	33 ¹ / ₄	33 ¹ / ₄	33 ¹ / ₄	33 ¹ / ₄	33 ¹ / ₄
Price, element only \$		30.00	37.50	45.00	52.50	60.00	67.50	75.00	82.50	90.00	97.50
Price, glass jar, extra \$		4.00	4.75	4.75	5.75	. .	. .	. .	. .	. .	. .
Price, glass tank, extra . . . . . \$		. .	. .	6.00	. .	7.05	. .	10.50	. .	. .	. .
Price, all metal tank, extra \$		15.55	16.70	17.85	19.00	20.15	21.30	22.45	23.60	24.75	25.90
Price, lead-lined wood tank, Ex., \$		13.00	13.85	14.70	15.55	16.40	17.25	18.10	18.95	19.80	20.65

N. B.—In ordering Elements, or parts thereof, specify whether intended for glass jars, glass tanks, all metal tanks, or wood tanks. See pages 27 and 28 for prices of Connectors, Electrolyte, etc.



Type "G" 19 Plates in Lead-Lined Wood Tank

ELEMENTS OF TYPE "G"

Size of Plates, 15 5/16 inches by 15 5/16 inches. Clearance between tanks, 2 inches

"Chloride Accumulator"

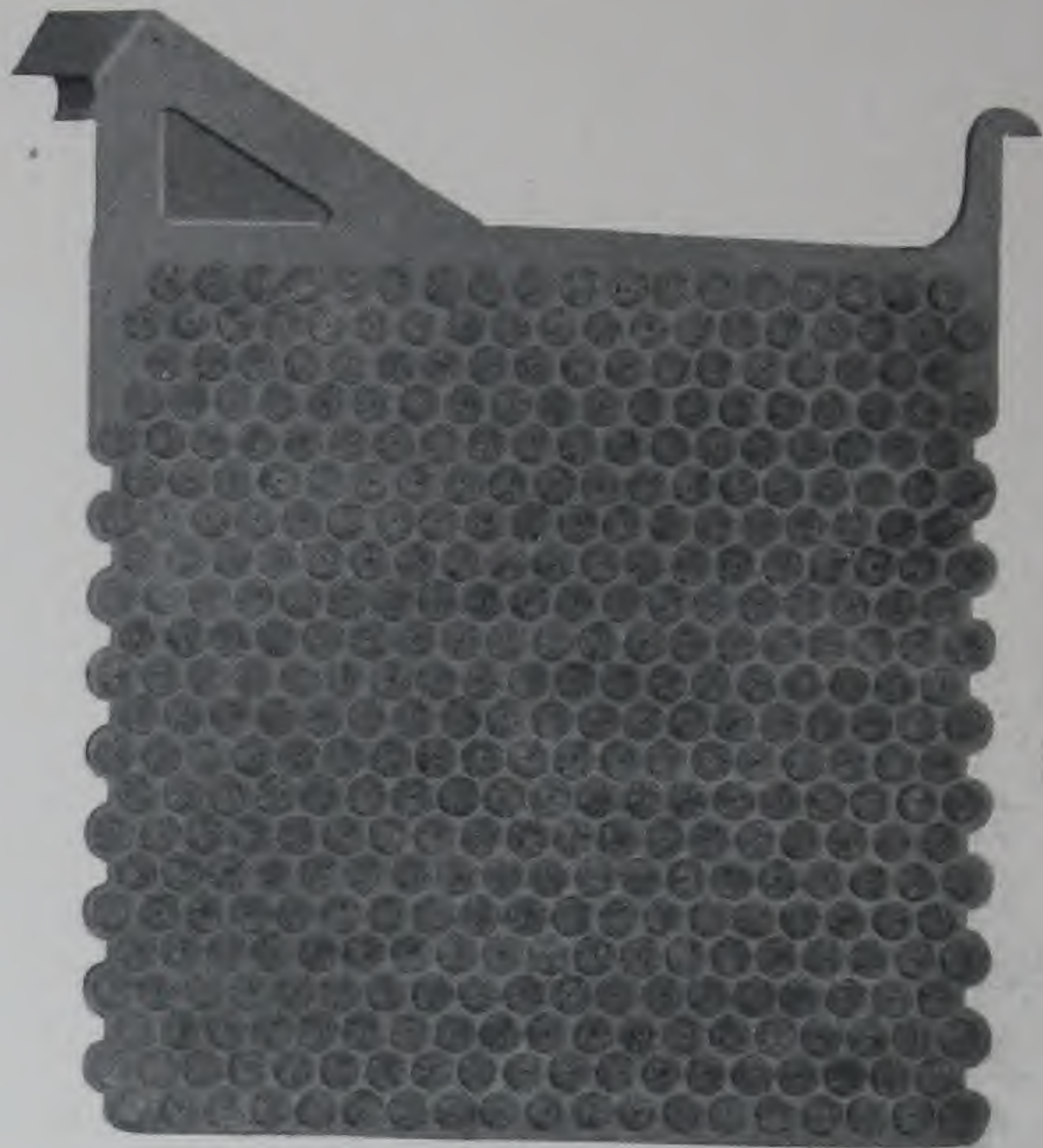
Number of plates	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
	For																																
	8 hours																																
	5 "																																
	Discharge in amperes:																																
	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740
	140	168	196	224	252	280	308	336	364	392	420	448	476	504	532	560	588	616	644	672	700	728	756	784	812	840	868	896	924	952	980	1008	1036
	200	240	280	320	360	400	440	480	520	560	600	640	680	720	760	800	840	880	920	960	1000	1040	1080	1120	1160	1200	1240	1280	1320	1360	1400	1440	1480
	400	480	560	640	720	800	880	960	1040	1120	1200	1280	1360	1440	1520	1600	1680	1760	1840	1920	2000	2080	2160	2240	2320	2400	2480	2560	2640	2720	2800	2880	2960
Normal charge rate	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740

Outside measurement of tank in inches:	Length . . .																																	
	Width . . .																																	
	Height . . .																																	
	15 1/2	16 3/4	18 3/4	20	22 3/4	24 3/4	26	27 3/4	29 3/4	31	32 3/4	34 3/4	36	37 3/4	39 3/4	40 3/4	42 3/4	44 3/4	45 3/4	47 1/2	49 3/4	51 3/4	53 3/4	54 3/4	56 3/4	58 3/4	59 3/4	61 1/2	63 1/4	64 3/4	66 1/2	68 3/4	69 3/4	
19 3/4	19 3/4	19 3/4	19 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	20 3/4	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	
26	26	26	26	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	26 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2

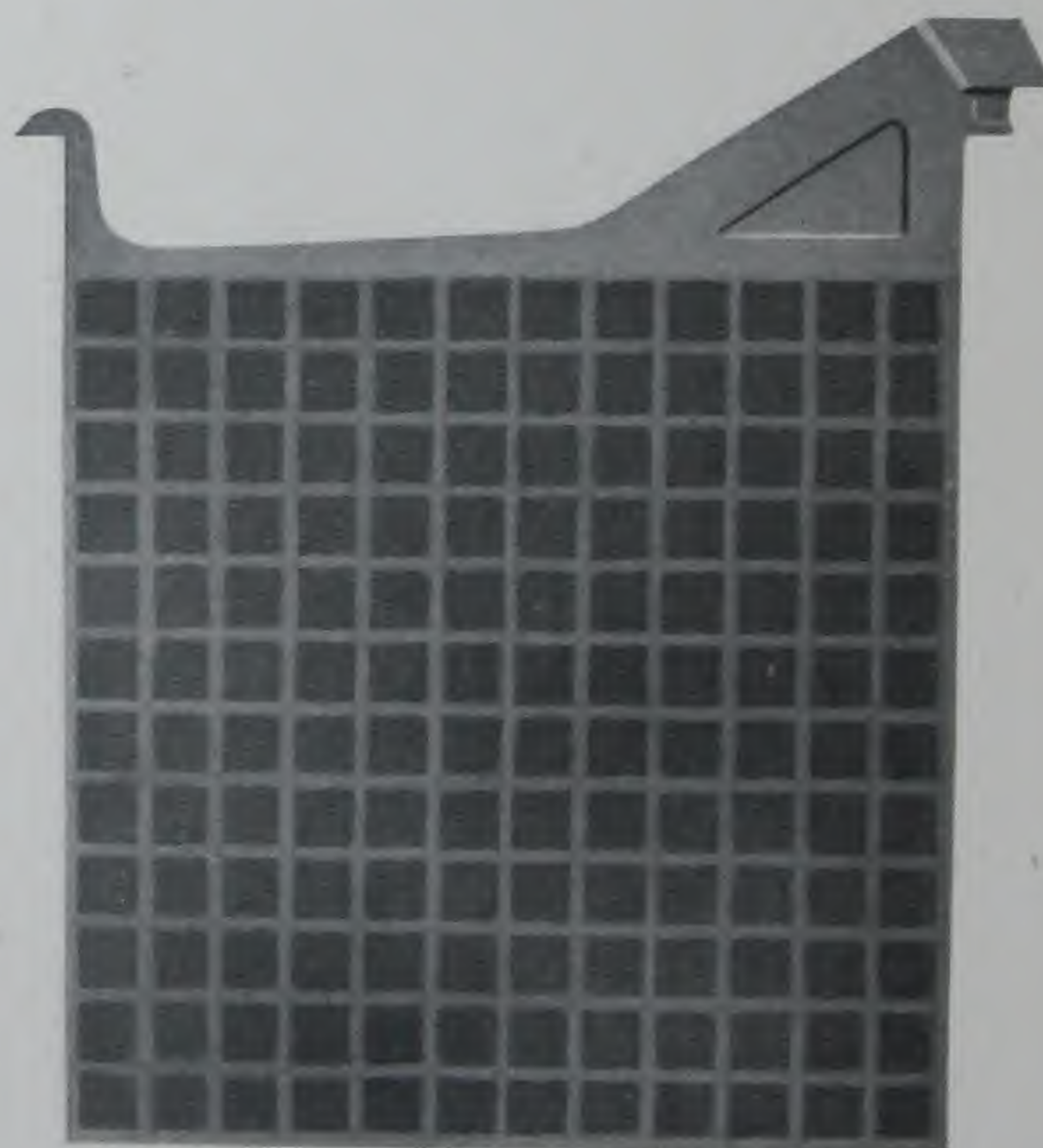
THE ELECTRIC STORAGE BATTERY CO.

Weight of electrolyte, in pounds,	188	210	231	253	274	296	317	338	360	381	403	424	446	467	489	510	532	553	575	596	618	639	661	682	704	725	747	768	790	811	833	854	876
Weight of cell, complete, with electrolyte, in lead- lined wood tank, in pounds:	568	645	719	798	925	1006	1085	1165	1266	1347	1427	1507	1588	1668	1748	1841	1922	2005	2086	2165	2249	2393	2475	2557	2641	2724	2805	2889	2971	3053	3135	3217	3300
Height of cell from floor to top of bus-bar, for double insulation, in inches:	38 1/8	38 1/8	38 1/8	38 1/2	40 1/8	40 1/8	40 1/8	40 1/8	40 1/8	40 1/8	40 1/8	40 1/8	40 1/8	40 1/8	40 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	41 1/8	

Price, element only \$	75 00	90 00	105 00	120 00	135 00	150 00	165 00	180 00	195 00	210 00	225 00	240 00	255 00	270 00	285 00	300 00	315 00	330 00	345 00	360 00	375 00	390 00	405 00	420 00	435 00	450 00	465 00	480 00	495 00	510 00	525 00	540 00	555 00
Price, lead-lined wood tank, extra . . . \$	18 70	19 55	20 40	21 25	23 85	25 00	26 16	27 30	28 45	29 60	30 75	31 90	33 05	34 20	35 35	36 50	37 65	38 80	39 95	41 10	42 25	45 70	46 85	48 00	49 15	50 30	51 45	52 60	53 75	54 90	56 05	57 20	58 35



Type "R" Positive Plate



Type "R" Negative Plate

ELEMENTS OF TYPE "R"

Size of Plates, 18 5/8 Inches by 18 5/8 Inches. Clearance between tanks, 2 Inches

"Chloride Accumulator"																											
Number of plates		25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
Discharge in amperes:	For 6 hours . . .	360	390	420	450	480	510	540	570	600	630	660	690	720	750	780	810	840	870	900	930	960	990	1020	1050	1080	1110
	2 " . . .	876	949	1022	1095	1168	1241	1314	1387	1460	1533	1606	1679	1752	1825	1898	1971	2044	2117	2190	2263	2336	2409	2482	2555	2628	2701
	1 " . . .	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760	2880	3000	3120	3240	3360	3480	3600	3720	3840	3960	4080	4200	4320	4440
	Regulating } rate:	2880	3120	3360	3600	3840	4080	4320	4560	4800	5040	5280	5520	5760	6000	6240	6480	6720	6960	7200	7440	7680	7920	8160	8400	8640	8880
Normal charge rate		360	390	420	450	480	510	540	570	600	630	660	690	720	750	780	810	840	870	900	930	960	990	1020	1050	1080	1110
Outside meas- urement of tank, in inches:	Length	28 3/8	30 1/8	31 3/8	33 3/8	35	36 3/4	38 3/8	40	41 5/8	43 3/8	45	46 5/8	48 1/4	50	51 5/8	53 1/4	54 7/8	56 3/8	58 1/4	59 7/8	61 1/2	63 1/4	64 7/8	66 1/2	68 1/8	69 7/8
	Width	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4	24 3/4
	Height	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2
THE ELECTRIC STORAGE BATTERY CO.																											
Weight of electrolyte, in pounds,		481	512	543	574	605	636	667	698	729	760	791	822	853	884	915	946	977	1008	1039	1070	1101	1132	1163	1194	1225	1256
Weight of cell, complete, with electrolyte, in lead-lined wood tanks, in pounds:		1749	1867	1985	2104	2223	2340	2460	2573	2692	2810	2930	3049	3168	3287	3406	3524	3643	3763	3882	4000	4113	4238	4353	4471	4590	4709
Height of cell from floor to top of bus-bar, double insu- lation, in inches:		46 1/4	46 1/4	46 1/4	46 1/4	46 1/4	46 1/4	46 1/4	46 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4
Price, elements only		\$ 285 00	307 50	330 00	352 50	375 00	397 50	420 00	442 50	465 00	487 50	510 00	532 50	555 00	577 50	600 00	622 50	645 00	667 50	690 00	712 50	735 00	757 50	780 00	802 50	825 00	847 50
Price, lead-lined wood tank, extra		\$ 39 70	41 30	42 90	44 50	46 10	47 70	49 30	50 90	52 50	54 10	55 70	57 30	58 90	60 50	62 10	63 70	65 30	66 90	68 50	70 10	71 70	73 30	74 90	76 50	78 10	79 70

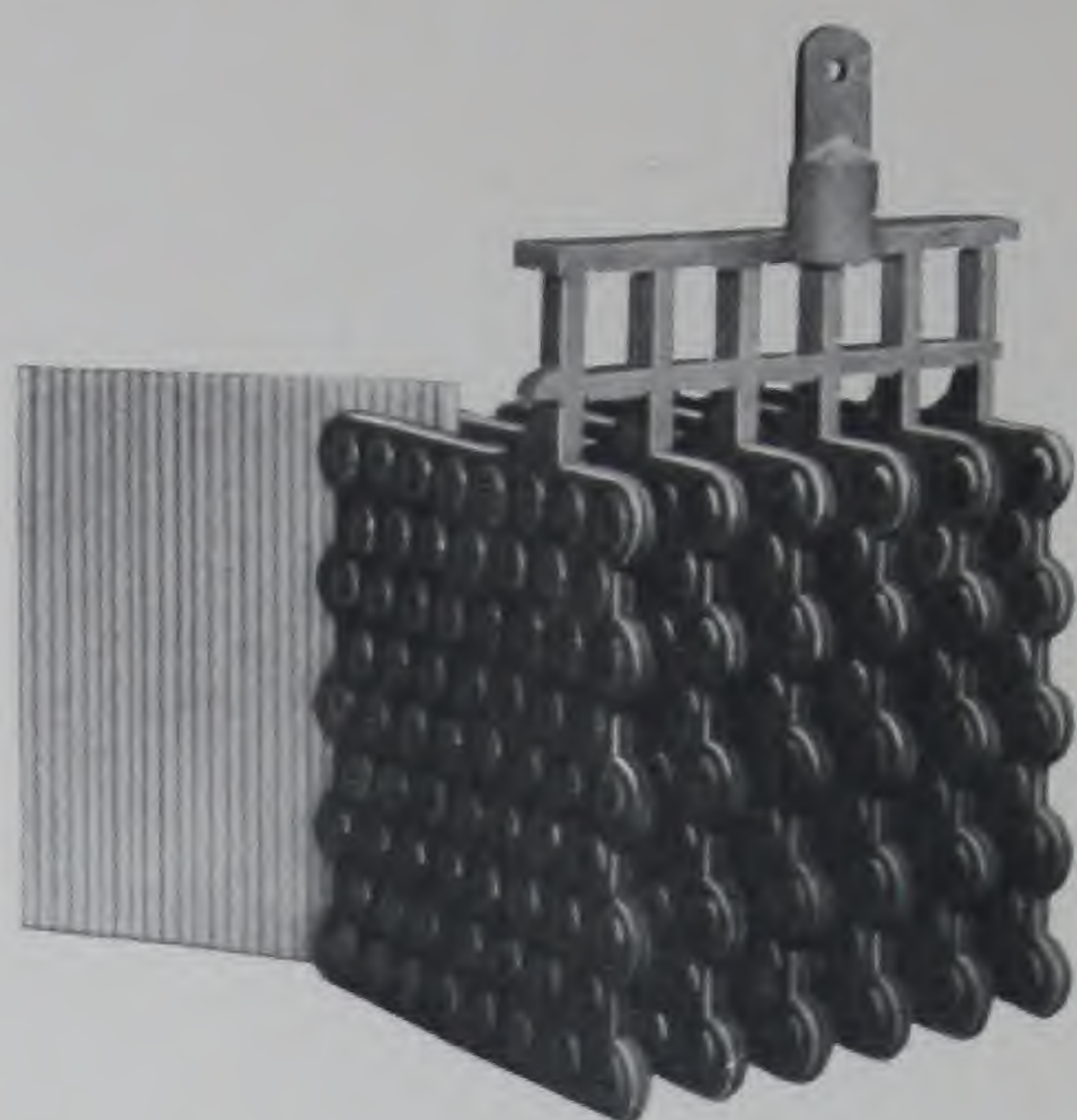


Type "H" 45 Plates in Lead-Lined Wood Tank

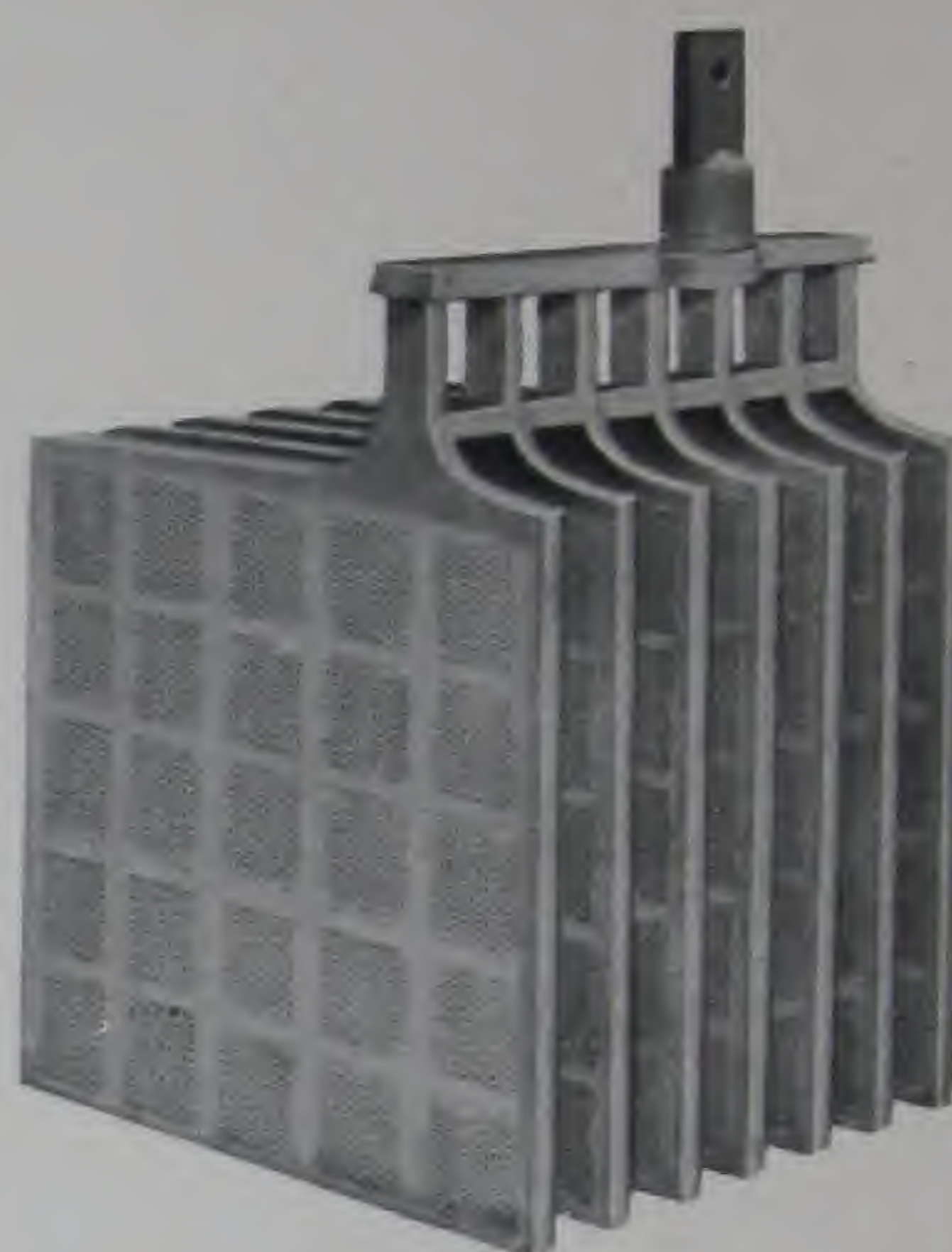
ELEMENTS OF TYPE "H"

Size of Plates, 30 1/4 inches by 15 1/8 inches. Clearance between tanks, 2 inches

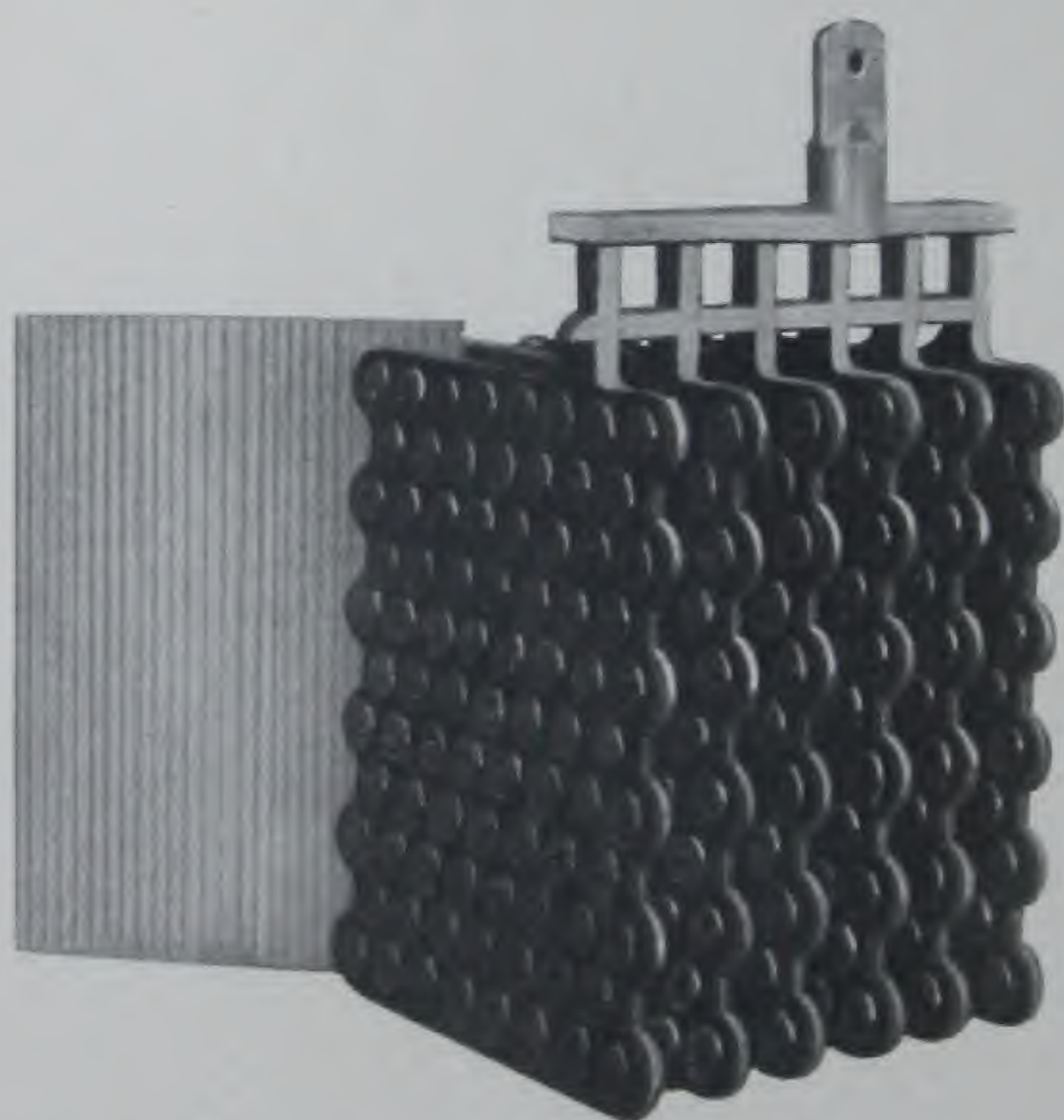
"Chloride Accumulator"																													
Number of plates		21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
Discharge in amperes:	For 8 hours	400	440	480	520	560	600	640	680	720	760	800	840	880	920	960	1000	1040	1080	1120	1160	1200	1240	1280	1320	1360	1400	1440	1480
	5 "	560	616	672	728	784	840	896	952	1008	1064	1120	1176	1232	1288	1344	1400	1456	1512	1568	1624	1680	1736	1792	1848	1904	1960	2016	2072
	3 "	800	880	960	1040	1120	1200	1280	1360	1440	1520	1600	1680	1760	1840	1920	2000	2080	2160	2246	2320	2400	2480	2560	2640	2720	2800	2880	2960
	1 "	1600	1760	1920	2080	2240	2400	2560	2720	2880	3040	3200	3360	3520	3680	3840	4000	4160	4320	4480	4640	4800	4960	5120	5280	5440	5600	5760	5920
Normal charge rate		400	440	480	520	560	600	640	680	720	760	800	840	880	920	960	1000	1040	1080	1120	1160	1200	1240	1280	1320	1360	1400	1440	1480
Outside meas- urement of tank in inches:	Length	25 1/4	26 1/4	28 3/4	30 3/4	31 3/4	33 3/4	35	36 3/4	38 3/4	40	41 3/4	43 3/4	45	46 3/4	48 1/4	50	51 1/4	53 1/4	54 3/4	56 3/4	58 1/4	59 3/4	61 1/4	63 1/4	64 3/4	66 3/4	68 3/4	69 3/4
	Width	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4	21 1/4
	Height	48 3/4	48 3/4	48 3/4	48 3/4	48 3/4	48 3/4	48 3/4	48 3/4	48 3/4	48 3/4	48 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4	49 3/4
THE ELECTRIC STORAGE BATTERY CO.																													
Weight of electrolyte, in pounds,		583	625	668	711	754	797	840	883	926	969	1012	1055	1098	1140	1182	1225	1268	1311	1354	1397	1440	1484	1527	1570	1613	1655	1698	1741
Weight of cell, complete with electrolyte, in lead- lined tank, in pounds:		1967	2121	2278	2435	2592	2749	2906	3063	3220	3377	3538	3694	3852	4009	4164	4319	4481	4637	4796	4953	5109	5268	5425	5584	5741	5896	6054	6215
Height of cell, from floor to top of bus-bar, double in- sulation, in inches:		62 1/4	62 1/4	62 1/4	62 1/4	62 1/4	62 1/4	62 1/4	62 1/4	62 1/4	62 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4	63 1/4
Price, element only		\$ 300 00	\$ 330 00	\$ 360 00	\$ 390 00	\$ 420 00	\$ 450 00	\$ 480 00	\$ 510 00	\$ 540 00	\$ 570 00	\$ 600 00	\$ 630 00	\$ 660 00	\$ 690 00	\$ 720 00	\$ 750 00	\$ 780 00	\$ 810 00	\$ 840 00	\$ 870 00	\$ 900 00	\$ 930 00	\$ 960 00	\$ 990 00	\$ 1020 00	\$ 1050 00	\$ 1080 00	\$ 1110 00
Price, lead-lined wood tank, } Extra:		\$ 53 40	\$ 54 90	\$ 56 40	\$ 57 90	\$ 59 40	\$ 60 90	\$ 62 40	\$ 63 90	\$ 65 40	\$ 66 90	\$ 68 40	\$ 69 90	\$ 71 40	\$ 72 90	\$ 74 40	\$ 75 90	\$ 77 40	\$ 78 90	\$ 80 40	\$ 81 90	\$ 83 40	\$ 84 90	\$ 86 40	\$ 87 90	\$ 89 40	\$ 90 90	\$ 92 40	\$ 93 90



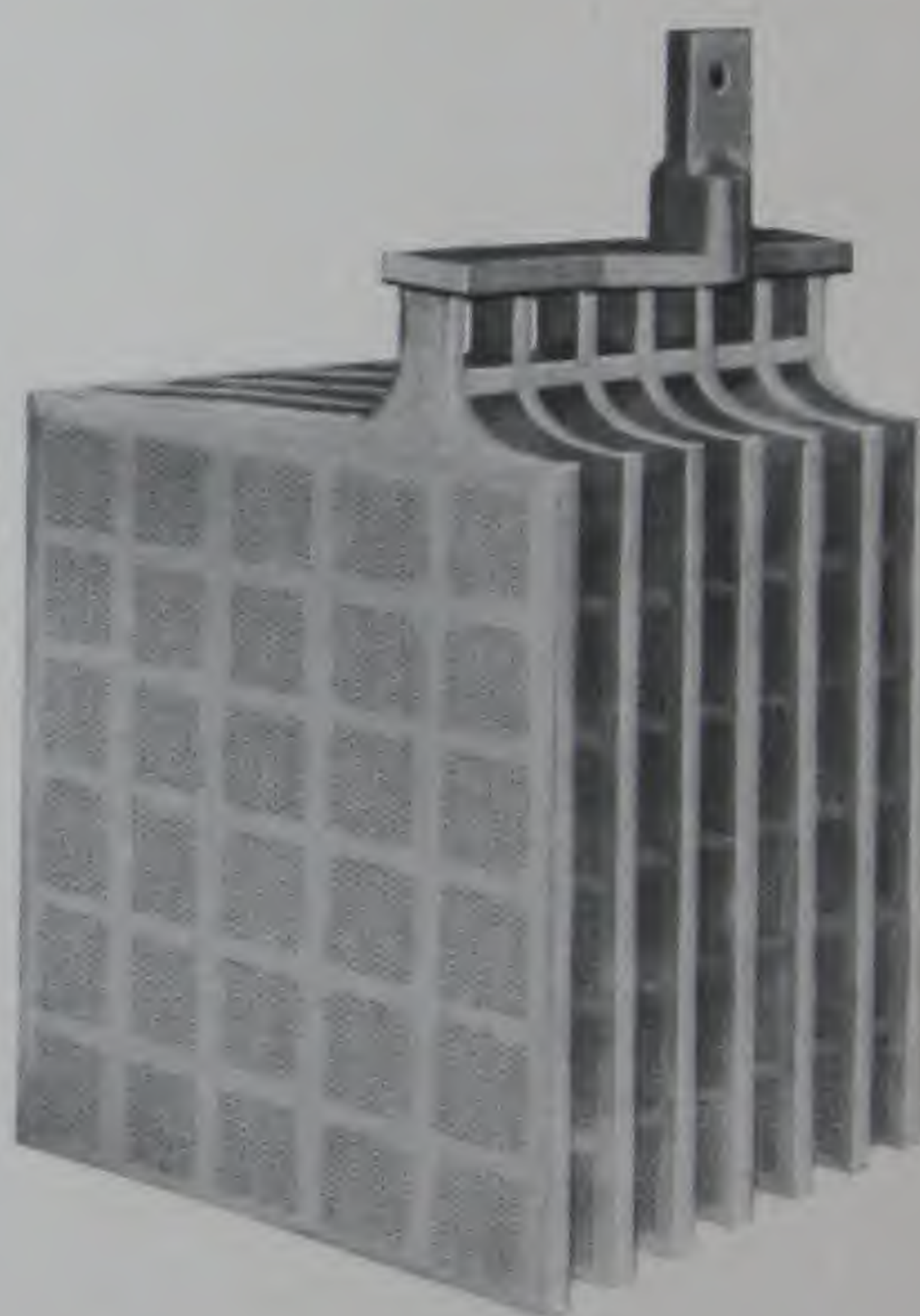
Type "E C S" Positive Group



Type "E C S" Negative Group



Type "E L S" Positive Group



Type "E L S" Negative Group

Revised by Carl Lighting Co. ELEMENTS OF CAR-LIGHTING TYPES

Type "E C S"

Size of Plates, $7\frac{3}{4}$ Inches by $7\frac{3}{4}$ Inches

Type "E L S"

Size of Plates, $9\frac{5}{8}$ In. by $7\frac{3}{4}$ In.

"Chloride Accumulator"													
Type "E C S"							Type "E L S"						
Size of Plates, $7\frac{3}{4}$ Inches by $7\frac{3}{4}$ Inches							Size of Plates, $9\frac{5}{8}$ In. by $7\frac{3}{4}$ In.						
Number of plates . . .	5	7	9	11	13	15	5	7	9	11	13	15	
Discharge in amperes	For 8 hours,	10	15	20	25	30	35	12	18	24	30	36	42
	5 "	14	21	28	35	42	49	17	25	33	42	50	59
	3 "	20	30	40	50	60	70	24	36	48	60	72	84
	1 "	40	60	80	100	120	140	48	72	96	120	144	168
Normal charge rate . .													
Outside measurement of rubber jar, in inches :	Length,	$3\frac{25}{32}$	$5\frac{3}{32}$	$6\frac{13}{32}$	$7\frac{23}{32}$	$9\frac{1}{32}$	$10\frac{11}{32}$	$3\frac{25}{32}$	$5\frac{3}{32}$	$6\frac{13}{32}$	$7\frac{23}{32}$	$9\frac{1}{32}$	$10\frac{11}{32}$
	Width,	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$	$8\frac{13}{16}$
	Height,	$13\frac{1}{2}$	$13\frac{1}{2}$	$13\frac{1}{2}$	$13\frac{1}{2}$	$13\frac{1}{2}$	$13\frac{1}{2}$	$15\frac{1}{4}$	$15\frac{1}{4}$	$15\frac{1}{4}$	$15\frac{1}{4}$	$15\frac{1}{4}$	$15\frac{1}{4}$
THE ELECTRIC STORAGE BATTERY CO.													
Weight of electrolyte in pounds :	10	14	19	22	27	31	12	17	22	27	32	36	
Weight of cell complete, with electrolyte, in pounds :	39	54	70	85	100	116	47	66	85	104	123	142	
Height of cell from bottom of jar to top of lug, in inches :	15	15	15	15	15	15	$16\frac{3}{4}$	$16\frac{3}{4}$	$16\frac{3}{4}$	$16\frac{3}{4}$	$16\frac{3}{4}$	$16\frac{3}{4}$	
Price, element only \$	8.25	11.75	15.25	18.75	22.25	25.75	10.75	15.50	20.25	25.00	29.75	34.50	
Price, rubber jar, extra . . . \$	4.30	4.95	5.60	6.25	6.90	7.55	4.70	5.40	6.10	6.80	7.50	8.20	
Price, No. 6 rubber jar, extra :	\$ 6.05	6.95	7.85	8.75	9.65	10.55	6.60	7.60	8.60	9.60	10.60	11.60	
Price, soft rubber lip cover, including soft rubber plug, extra :	\$ 1.75	2.00	2.25	2.50	2.75	3.00	1.75	2.00	2.25	2.50	2.75	3.00	
Price, plain cover, including soft rubber plug, extra :	\$ 0.35	0.45	0.55	0.65	0.75	0.85	0.35	0.45	0.55	0.65	0.75	0.85	

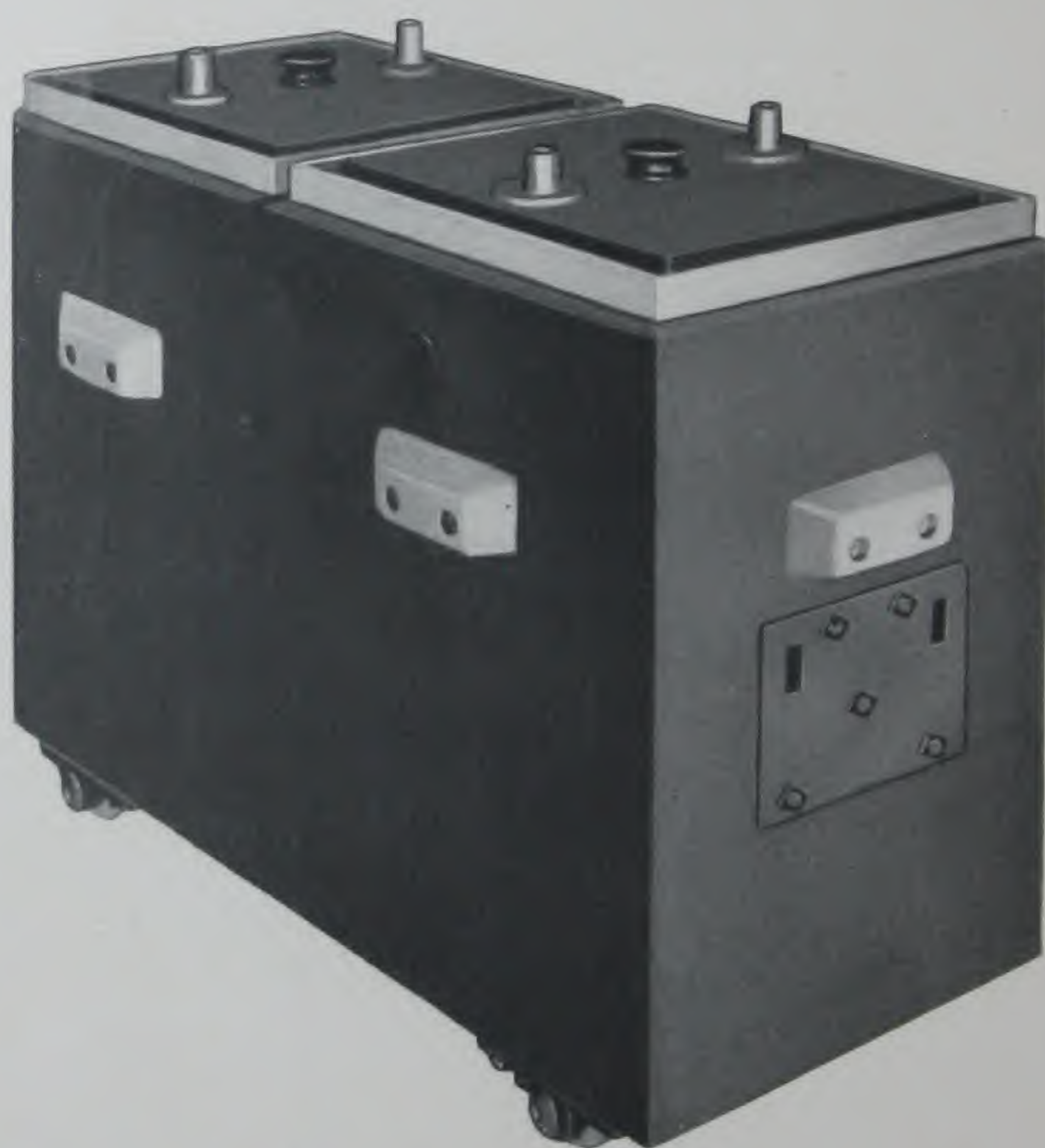
Prices of tanks upon application



"E L S" Rubber Jar and Cover



Two "E L S" Cells Assembled in Crate



Special Two Compartment Lead-Lined Tank



Type 501. Portable Battery

The "Chloride Accumulator"

OF THE PORTABLE TYPE

For portable use, in connection with phonograph, kinetoscope, other small motor work, and small electric lamps, the "Chloride Accumulator" is put up in sealed rubber jars, enclosed in a neat hardwood case, provided with handles and suitable connection terminals. Various capacities are furnished, as per table on next page, in which are also given weights, dimensions, normal working rates and prices for batteries complete, ready for immediate use, if ordered so shipped.

Unless otherwise ordered, portable batteries will be shipped filled with electrolyte and charged, ready for service. While the greatest care is used in packing, it is almost impossible to avoid damage to cells of this type when shipped by freight; for short distances it is therefore recommended that shipment be made by express, to insure more care in handling. Where this method is too expensive, it is advisable to forward without electrolyte, which may be ordered to be shipped in a separate vessel, for which a small additional charge is made; the battery to be given the necessary charge upon receipt.

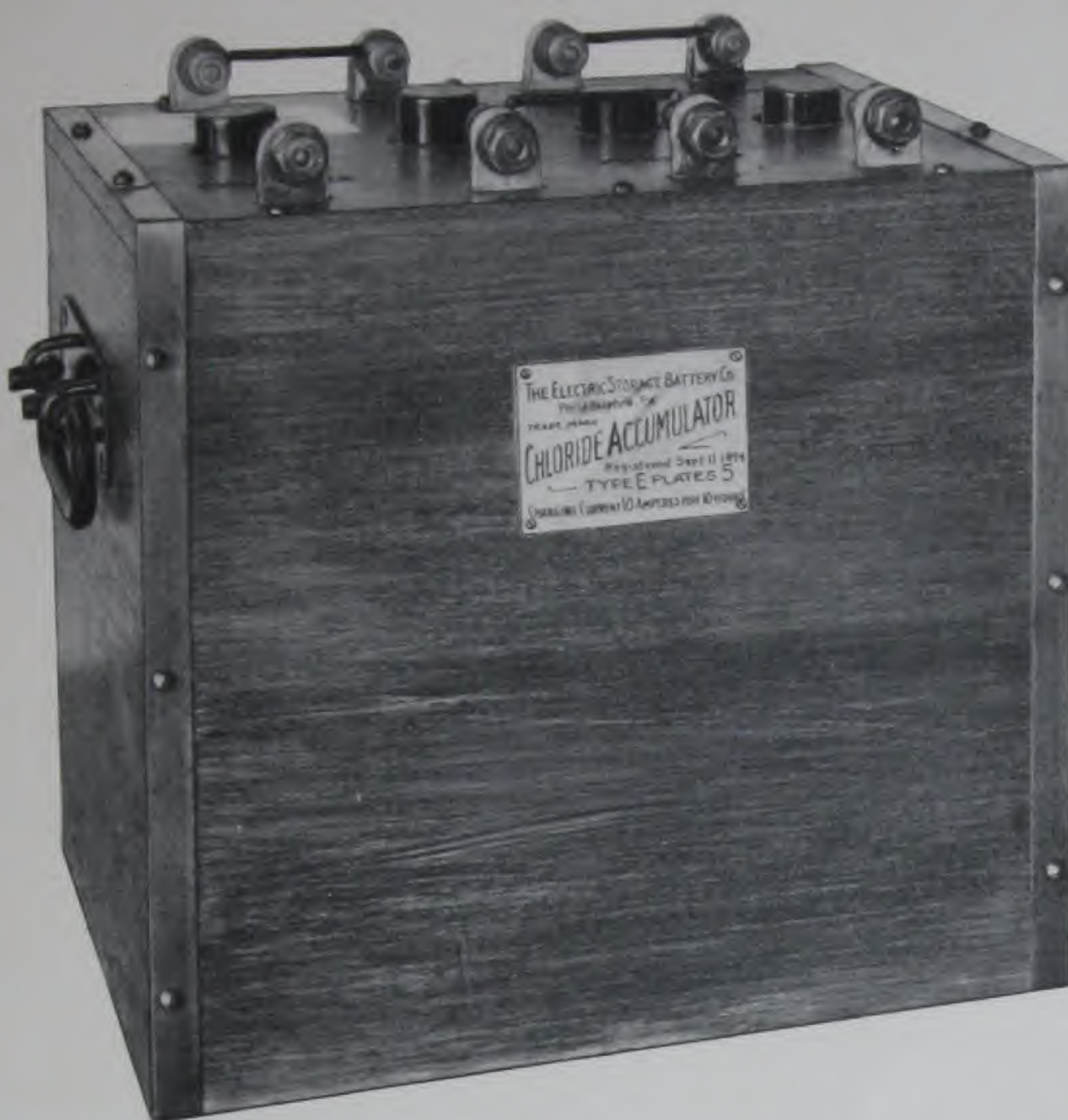
Each cell when discharging gives approximately two volts, and as all the cells in a case are connected together in series, the number of cells multiplied by two will give the approximate voltage between the two outside connectors of each case.

The normal rate is the highest rate in amperes at which the battery should be charged. At this rate the battery will be fully charged in nine hours and discharged in eight hours. At less than normal rates the length of time is increased in both instances and in discharging at more than the normal rate the time is decreased.

With each battery is furnished a folder, giving instructions in detail for its operation and care, which should be followed in order to obtain the most efficient results.

PORTABLE BATTERIES

Catalogue No.	No. of Cells in Case	Type and Number of Plates	Normal Charge and Discharge Rate	Outside Dimensions of Case, Inches	Height Over Lugs, in Inches	Weight Complete	Price Complete Charged
			Amperes	Length Width Height		Pounds	
301	1	"C" 3	1 1/4	3 x 5 1/2 x 10 1/2	11 3/4	8	\$5 00 ✓
302	2	" "	1 1/4	4 3/4 x 5 1/2 x 10 1/2	11 3/4	14	9 00 ✓
303	3	" "	1 1/4	6 1/2 x 5 1/2 x 10 1/2	11 3/4	20	12 50 ✓
304	4	" "	1 1/4	8 1/4 x 5 1/2 x 10 1/2	11 3/4	26	16 00 ✓
305	5	" "	1 1/4	10 x 5 1/2 x 10 1/2	11 3/4	32	19 00 ✓
401	1	"D" 3	2 1/2	3 1/4 x 7 3/4 x 12 1/2	13 3/4	15	6 50 ✓
402	2	" "	2 1/2	5 1/4 x 7 3/4 x 12 1/2	13 3/4	26	12 00 ✓
403	3	" "	2 1/2	7 1/4 x 7 3/4 x 12 1/2	13 3/4	37	16 50 ✓
404	4	" "	2 1/2	9 1/4 x 7 3/4 x 12 1/2	13 3/4	48	21 00 ✓
405	5	" "	2 1/2	11 1/4 x 7 3/4 x 12 1/2	13 3/4	59	25 00 ✓
406	1	"D" 5	5	4 1/4 x 7 3/4 x 12 1/2	13 3/4	24	10 00 ✓
407	2	" "	5	7 1/2 x 7 3/4 x 12 1/2	13 3/4	43	18 00 ✓
408	3	" "	5	10 3/4 x 7 3/4 x 12 1/2	13 3/4	62	26 00 ✓
409	4	" "	5	14 x 7 3/4 x 12 1/2	13 3/4	81	32 00 ✓
410	5	" "	5	17 1/4 x 7 3/4 x 12 1/2	13 3/4	100	38 00 ✓
411	1	"D" 7	7 1/2	5 1/4 x 7 3/4 x 12 1/2	13 3/4	33	12 00 ✓
412	2	" "	7 1/2	9 1/4 x 7 3/4 x 12 1/2	13 3/4	58	22 00 ✓
413	3	" "	7 1/2	13 1/4 x 7 3/4 x 12 1/2	13 3/4	83	30 00 ✓
414	4	" "	7 1/2	17 1/4 x 7 3/4 x 12 1/2	13 3/4	108	40 00 ✓
415	5	" "	7 1/2	21 1/4 x 7 3/4 x 12 1/2	13 3/4	133	50 00 ✓
501	1	"E" 5	10	4 1/4 x 10 x 14 1/4	15 1/2	33 1/2	14 50 ✓
502	2	" "	10	7 3/8 x 10 x 14 1/4	15 1/2	60	28 00 ✓
503	3	" "	10	10 1/2 x 10 x 14 1/4	15 1/2	86 3/4	40 00 ✓
504	4	" "	10	13 5/8 x 10 x 14 1/4	15 1/2	113 1/4	50 00 ✓
505	5	" "	10	16 3/4 x 10 x 14 1/4	15 1/2	140	60 00 ✓
506	1	"E" 7	15	5 1/2 x 10 x 14 1/4	15 1/2	42 1/4	18 00 ✓
507	2	" "	15	9 3/4 x 10 x 14 1/4	15 1/2	82 1/2	35 00 ✓
508	3	" "	15	14 x 10 x 14 1/4	15 1/2	122 3/4	50 00 ✓
509	4	" "	15	17 1/4 x 10 x 14 1/4	15 1/2	163	60 00 ✓
510	1	"E" 9	20	6 1/2 x 10 x 14 1/4	15 1/2	44 7/8	21 00 ✓
511	1	"E" 11	25	7 1/2 x 10 x 14 1/4	15 1/2	53 1/2	25 00 ✓



Type 504. Portable Battery
(See page 25)

PACKING CHARGES

In addition to the prices for Elements and Jars, the following net charges will be made for *cases* and *packing*:

"B" and "B T" Elements,	2 cents each.	✓
"C" and "C T" Elements,	4 " "	✓
"D," "P T" and "E T" Elements,	10 cents each.	✓
"E," "ECS" and "ELS" Elements,	15 cents each.	✓
"F" Elements,	25 cents each.	✓
"F" Plates (knocked down),	3 cents per plate.	✓
"G" Plates	" " 5 " "	✓
"R" Plates	" " 6 " "	✓
"H" Plates	" " 8 " "	✓

All Metal Tanks, Types E and F, all sizes, 50 cents each. ✓

Lead-lined Wood Tanks, Type F, all sizes, 50 cents each. ✓

" " " " G 11 to G 27 inclusive,	75 cents each.	✓
" " " " G 29 to G 39	" \$1.00 each.	✓
" " " " G 41 and larger	" 1.25 "	✓
" " " " R 25 to R 39	" 1.25 "	✓
" " " " R 41 and larger	" 1.75 "	✓
" " " " H 21 to H 39	" 1.50 "	✓
" " " " H 41 and larger	" 2.00 "	✓

Portable Batteries up to 100 pounds weight, 25 cents each; 100 pounds and over, 50 cents each. ✓

Rubber Jars, 5 cents each. ✓

Wood Separators, per 100, H, 30c.; R, 23c.; G, 15c.; F, 7c.; E, 5c.; D and smaller, 3½c. ✓

No charge for packing Glass Jars or Glass Tanks. ✓

The minimum charge for packing, 25 cents. ✓

PRICES

When ordering note the following:

(1.) Prices of Elements do not include Rubber Jars, Glass Jars, Tanks, Electrolyte or Connectors.

(2.) Prices plus packing charges are for delivery *F. O. B.* cars at works, Allegheny Avenue and Nineteenth Street, Philadelphia.

(3.) Carboys will be allowed for in full when returned in good condition, charges prepaid, to address furnished by The Electric Storage Battery Company upon application.

We are not liable for damage to goods in transit; our responsibility ceases when we deliver the material in good order to the transportation company; all claims for damage in transit should be made against the carrier.

RENEWALS

Type Elements	Positive Plates	Negative Plates	Rubber Ring Separators	Corrugated and Perforated Rubber Separators	Wood Separators with Dowels
"B T"				\$0.09	
"B"	\$0.60	\$0.45	\$0.05	.05	
"C"	1.00	.70	.06	.07	
"D"	1.26	.85	.07	.13	\$0.03
"E"	2.10	1.40	.09	.21	.04
"ECS"	2.10	1.40			.04
"ELS"	2.80	1.85			.06
"F"	4.00	2.80	.12		.06
"G"	7.85	5.60			.11
"R"	12.25	8.75			.15
"H"	15.70	11.20			.19
"B T" Couples					\$0.90
"C T" "					1.75
"P T" "					2.60
"E T" "					3.50

SUNDRY SUPPLIES

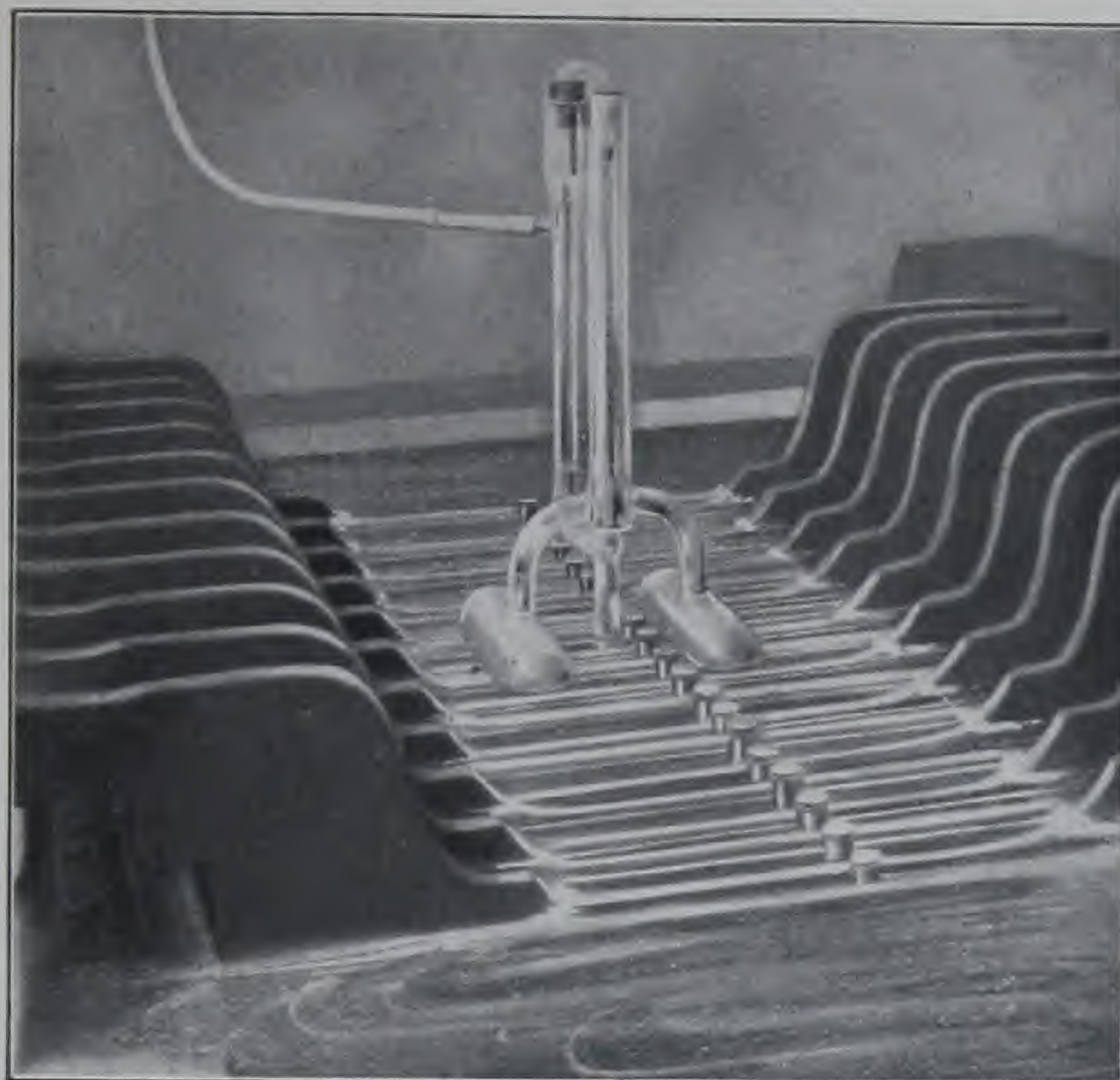


Fig. 1. Automatic Water-Filling Apparatus



Fig. 2. Signaling Hydrometer

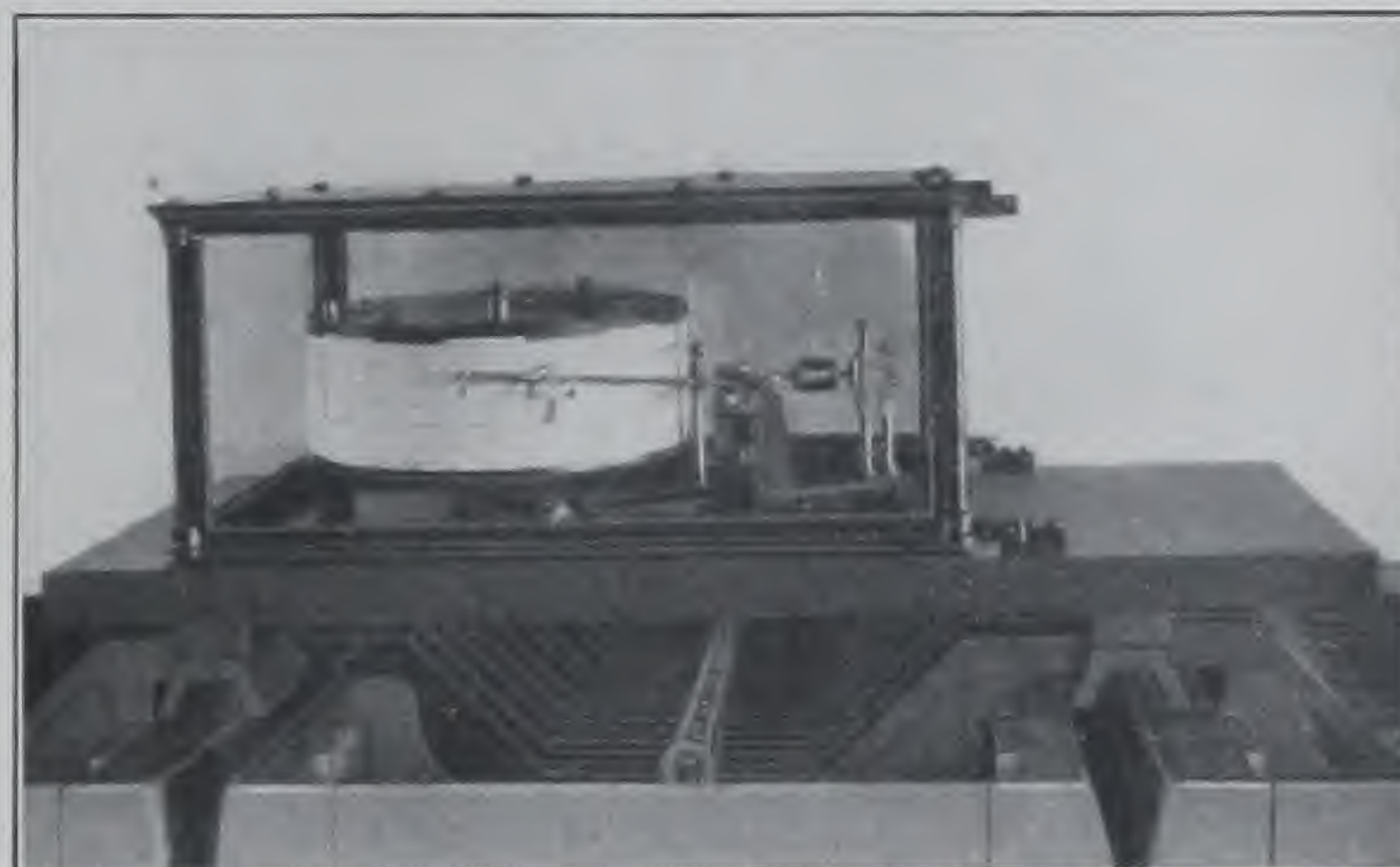


Fig. 3. Recording-Signaling Hydrometer

Automatic Water-Filling Apparatus for Pilot Cells (Fig. 1).

Complete with 3-gallon Glass Reservoir, Stop Valve and Cover
(for "F" Cells, G to 39 Plates, R to 29 Plates and H to 29 Plates) \$10.85

Complete with 5-gallon Glass Reservoir, Stop Valve and Cover (for cells larger than above)	12.60
---	-------

Each of the above includes 8 feet of Lead Tubing and 16 inches of Rubber Tubing.

Parts for Automatic Water Filling Apparatus.

Glass Automatic Water Valve, for Type "F," "G" and "R" Cells,	4.50
---	------

Glass Automatic water Valve, for type "H"	
" " " " " " " " " " " "	5.00

3-gallon Glass Receptacle complete, with Cover, and Stop Valve,	6.00
5 " " " " " " " " " "	7.25

Rubber Tubing for Connecting the Valve per foot,	.09
--	-----

Rubber Tubing for Connecting the Valve	" "	.03
Lead Tubing	" "	.03

Signaling Hydrometer complete (Fig. 2)	24.00
--	-------

Recording-Signaling Hydrometer complete (Fig. 2)	25.00
Recording-Signaling Hydrometer complete (Fig. 3)	75.00

SUNDRY SUPPLIES (CONCLUDED)

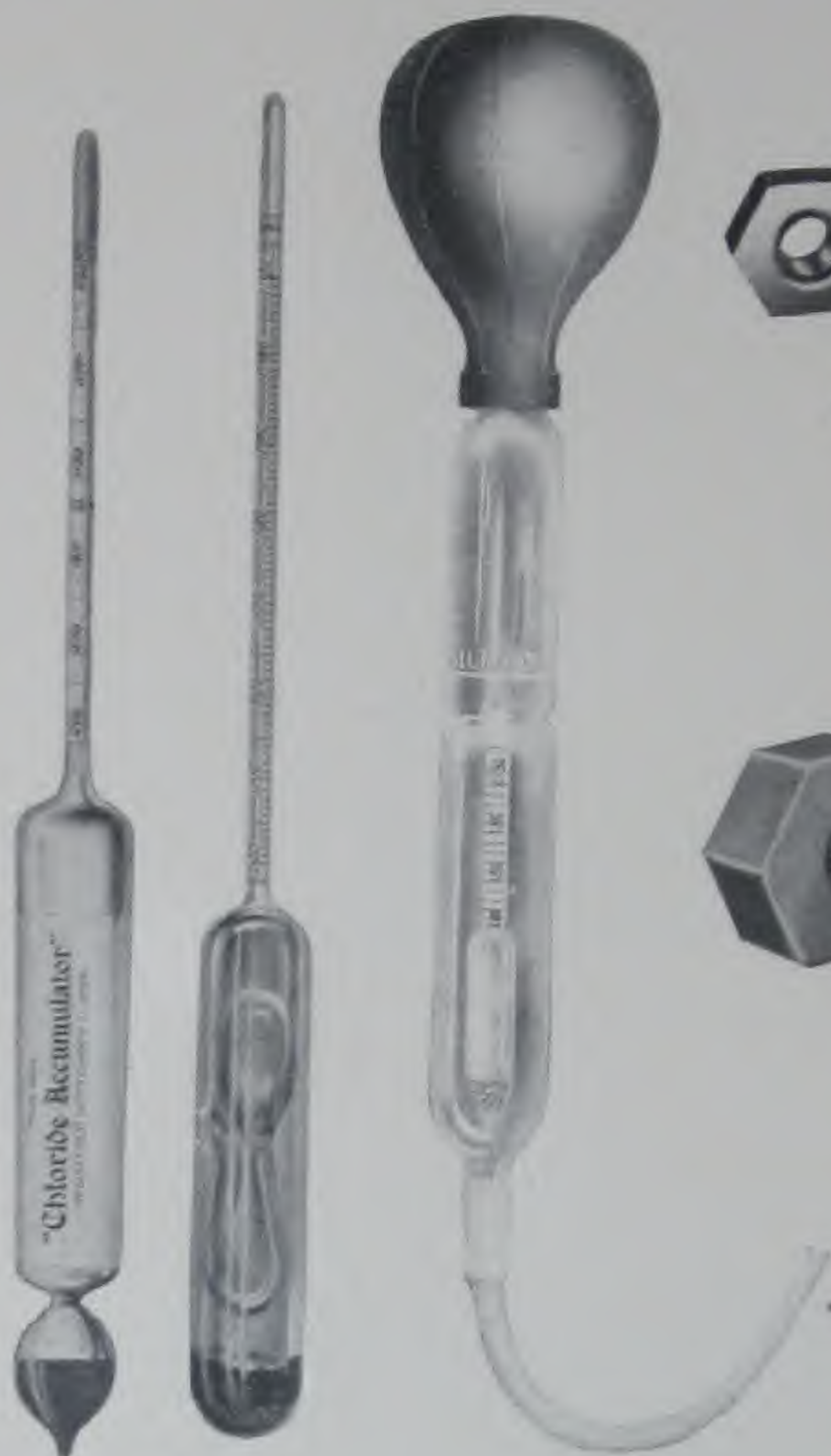


Fig. 1

Fig. 2

Fig. 3

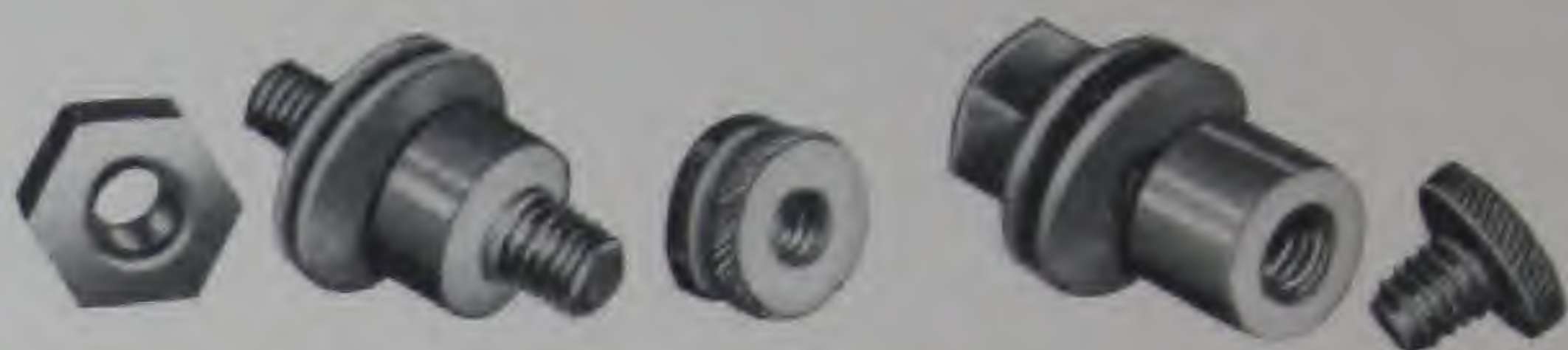


Fig. 4. Binding Posts for Portable Batteries

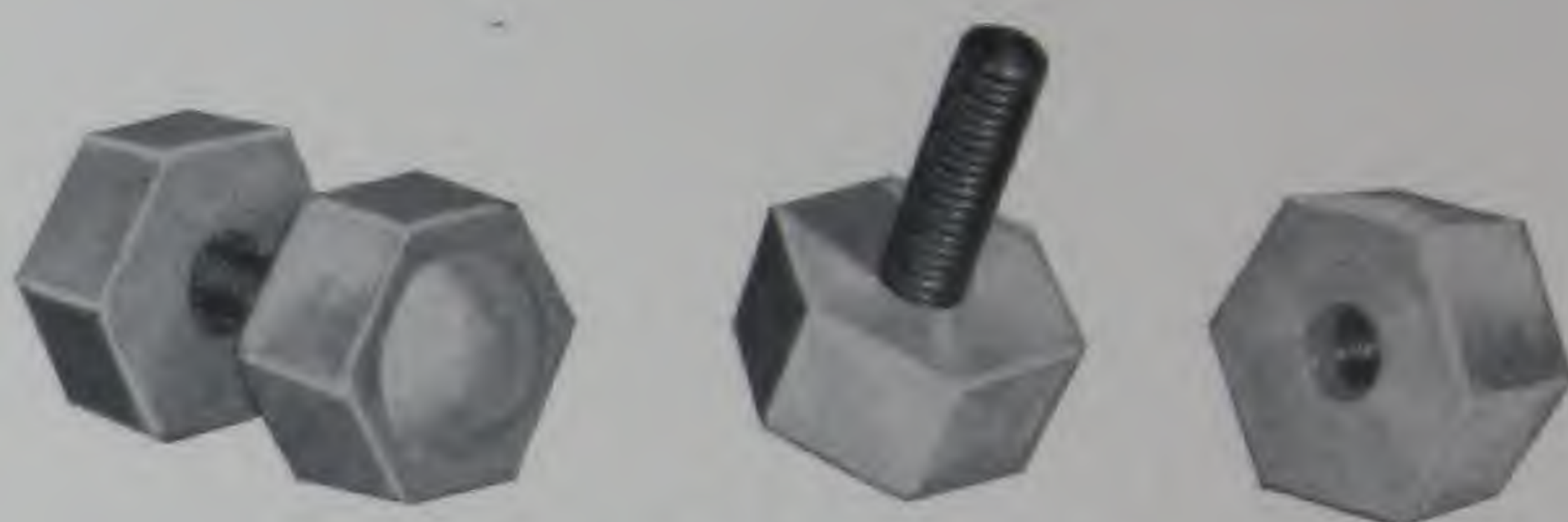


Fig. 5. Bolt Connectors

Hydrometers (Fig. 1)	each,	\$1.50	✓
Compensating Hydrometers (Fig 2)	"	6.00	✓
Hydrometer Syringe (Fig. 3)	"	3.00	
Battery Thermometer	"	1.50	✓
Inspection Lamps, Type "G"		4.50	✓
" " " "H"		5.00	✓
Phosphor-Bronze Binding Posts for Portable Batteries (Fig. 4), per set of two . . . . .		.60	✓
Bolt Connectors (Fig. 5), Types "B," "C" and "D"	each,	.15	✓
" " " "E" and "F"	"	.20	✓
Sand Trays, wood, for "C" and "D" Elements	"	.40	✓
" " " "E" Elements	"	.45	✓
" " " "F" " in Glass Jars, 9 to 15 inc. "	"	.60	✓
" " " "F" 13 and 17 Elements in Glass Tanks "	"	.80	✓
" " " "F" 21 Elements in Glass Tanks	"	1.00	✓
Sealing Compound	per pound,	.50	✓
Electrolyte	per 100 pounds,	3.00	✓
Carboys	each,	1.50	

2.00

Oac. Coast 2.25

Extrays for Effort 25th E/Am

THE ELECTRIC STORAGE BATTERY CO.

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Walter Morgan Avenue, 1911 to 1912. Photographed by

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